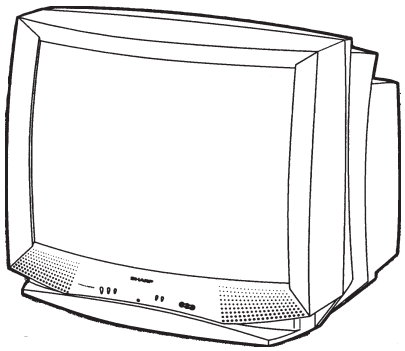
SHARP SERVICE MANUAL

S28L932K-S400



COLOR TELEVISION

Chassis No. SN-82

MODELS **32K-S400, CK32S40**
36K-S400, CK36S40

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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ELECTRICAL SPECIFICATIONS

POWER INPUT ..... 120V AC 60 Hz
POWER RATING
- 32K-S400, CK32S40 ..... 140W
- 36K-S400, CK36S40 ..... 165W

PICTURE SIZE
- 32K-S400, CK32S40 ..... 3,073cm^2 (476sq inch)
- 36K-S400, CK36S40 ..... 3,905cm^2 (605sq inch)

CONVERGENCE ..... Magnetic
SWEEP DEFLECTION ..... Magnetic
FOCUS ..... Hi-Bi-Potential Electrostatic
INTERMEDIATE FREQUENCIES
- Picture IF Carrier Frequency ..... 45.75 MHz
- Sound IF Carrier Frequency ..... 41.25 MHz
- Color Sub-Carrier Frequency ..... 42.17 MHz (Nominal)

AUDIO POWER
- OUTPUT RATING ..... 2.5W + 2.5W (at 10% distortion and Dual CH Operate)

SPEAKER
- SIZE ..... 12 cm x 6 cm (2pcs)
- VOICE COIL IMPEDANCE ..... 8 ohm at 400 Hz

ANTENNA INPUT IMPEDANCE
- VHF/UHF ..... 75 ohm Unbalanced

TUNING RANGES
- VHF-Channels ..... 2 thru 13
- UHF-Channels ..... 14 thru 69
- CATV Channels ..... 1 thru 125 (EIA, Channel Plan U.S.A.)

Specifications are subject to change without prior notice.

SHARP CORPORATION

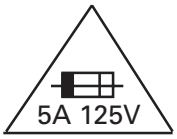
This document has been published to be used for after sales service only.
The contents are subject to change without notice.

IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit and the horizontal output circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.
   To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.



CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 5A-125V FUSE.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.
   It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high voltage meter.
   The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value –no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a colour chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver.
   Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

IMPORTANT SERVICE SAFETY PRECAUTION

(Continued)

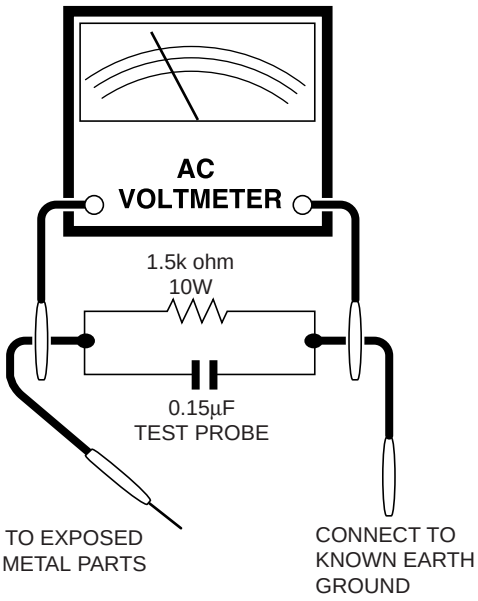
BEFORE RETURNING THE RECEIVER

(Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 120 volt AC outlet, (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.
  AII checks must be repeated with the AC ine cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)
  Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the ***Replacement Parts Lists*** and ***Schematic Diagrams***.

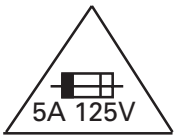
For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

PRECAUTIONS A PRENDRE LORS DE LA REPARATION

■ **Ne peut effectuer la réparation qu' un technicien spécialisé qui s'est parfaitement accoutumé à toute vérification de sécurité et aux conseils suivants.**

AVERTISSEMENT

1. N'entreprendre aucune modification de tout circuit. C'est dangereux.
2. Débrancher le récepteur avant toute réparation.
3. Les déversoirs thermiques à semi-conducteurs peuvent présenter un danger de choc électrique lorsque le réceqteur est en marche.
4. Le châssis de ce récepteur possède deux systèmes de masse qui sont séparées par du matériel d'isolation. Le système de masse non-isolée (sous tension) est pour le circuit du régulateur de tension B+ et le circuit de sortie horizontale. Le système de masse isolée est pour les tensions DC B+ basses et le circuit secondaire du transformateur haute tension. Pour éviter tout risque d'électrocution lors de l'entretien de ce châssis, utiliser un transformateur d'isolation entre le cordon de ligne et la prise de courant.



PRECAUTION: POUR LA PROTECTION CONTINUE CONTRE LES RISQUES D'INCENDIE, REMPLACER LE FUSIBLE PAR UN FUSIBLE DE MEME TYPE 5A-125V.

REPARATION DU SYSTEME A HAUTE TENSION ET DU TUBE-IMAGE

Lors de la réparation de ce systéme, supprimer la charge statique en branchant une résistance de 10 kΩ en série avec un fil isolé (comme une sonde d'essai) entre la mise à la terre du tube-image et le fil d'anodel. (Le corden d'alimentation doit être retiré de la prise murale.)

1. Le tube image dans ce récepteur emploie une protection intégrée contre l'implosion.
2. Par mesure de sécurité, changer le tube-image pour un tube du même numéro de type.
3. Ne pas lever le tube-image par son col.
4. Ne manipuler le tube-image qu'en porant des lunettes incassables et qu'après avoir déchargé totalement la haute tension.

LIMITES DES RADIATIONS X ET DE LA HAUTE TENSION

1. Tout le personnel réparateur doit être instruit des instructions et procédés relatifs aux radiations X.
   Le tube-image, seule source de rayons X dons les téleviseurs transistorisés, n'émet pourtant pas de rayons mesurables si la haute tension est maintenue à un niveau préconisé dans la section "Vérification de la haute tension".
   C'est seulement quand la haute tension est excessive que les rayons X peuvent entrer dans l'enveloppe du tube-image y compris le conducteur de verre. Il est important de maintenir la haute tension en-dessous du niveau spécifié.
2. Il est essentiel que le réparateur ait sous la main un voltmètre à haute tension qui doit être périodiquement étalonné.
3. La haute tension doit toujours être maintenue à la valeur de régime -et pas plus haute. L'opération à des tensions plus élevées peut entraîner une panne du tube-image ou du circuit à haute tension et, dans certaines conditions, peut entraîner une radiation dépassant les niveaux préscrits.
4. Quand le régulateur à haute tension fonctionne correctement, il n'y a aucun problème de radiation X. Chaque fois qu'un châssis couleurs est réparé, la luminosité doit être examinée bout en contrôlant la haute tension à l'aide d'un voltmètre pour s'assurer que la haute tension ne dépasse pas la valeur spécifiée et qu'elle soit correctement réglée.
5. Ne pas utiliser un tube-image autre que celui spécifié et ne pas effectuer de modifications déconseillées du circuit à haute tension.
6. Lors de la recherche des pannes et des mesures d'essai sur un récepteur qui présente une haute tension excessive, éviter de s'approcher inutilement du récepteur.
   Ne pas faire fonctionner le récepteur plus longtemps que nécessaire pour localiser la cause de la tension excessive.

PRECAUTIONS A PRENDRE LORS DE LA REPARATION

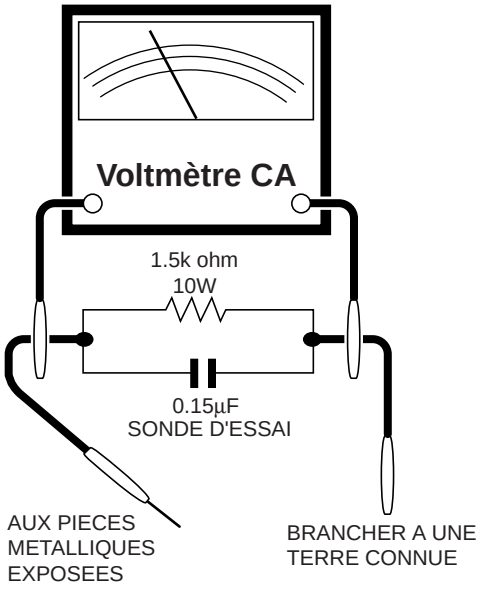
(Suite)

VERIFICATIONS CONTRE L'INCEN-DIE ET LE CHOC ELECTRIQUE

Avant de rendre le récepteur à l'utilisateur, effectuer les vérifications suivantes.

1. Inspecter tous les faisceaux de câbles pour s'assurer que les fils ne soient pas pincés ou qu'un outil ne soit pas placé entre le châssis et les autres pièces métalliques du récepteur.
2. Inspecter tous les dispositifs de protection comme les boutons de commande non-métalliques, les isolants, le dos du coffret, les couvercles ou blindages de réglage et de compartiment, les réseaux de résistance-capacité, les isolateurs mécaniques, etc.
3. S'assurer qu'il n'y ait pas de danger d'électrocution en vérifiant la fuite de courant, de la facon suivante:

- Brancher le cordon d'alimentation directem-ent à une prise de courant de 120V. (Ne pas utiliser de transformateur d'isolation pour cet essai).
- A l'aide de deux fils à pinces, brancher une résistance de 1,5 kΩ 10 watts en parallèle avec un condensateur de 0,15µF en série avec toutes les pièces métalliques exposées du coffret et une terre connue comme une conduite électrique ou une prise de terre branchée à la terre.
- Utiliser un voltmètre CA d'une sensibilité d'au moins 5000Ω/V pour mesurer la chute de tension en travers de la résistance.
- Toucher avec la sonde d'essai les pièces métalliques exposées qui présentent une voie de retour au châssis (antenne, coffret métallique, tête des vis, arbres de commande et des boutons, écusson, etc.) et mesurer la chute de tension CA en-travers de la résistance. Toutes les vérifications doivent être refaites après avoir inversé la fiche du cordon d'alimentation. (Si nécessaire, une prise d'adpatation non polarisée peut être utilisée dans le but de terminer ces vérifications.)
  Tous les courants mesurés ne doivent pas dépasser 0,5 mA.
  Dans le cas contraire, il y a une possibilité de choc électrique qui doit être supprimée avant de rendre le récepteur au client.

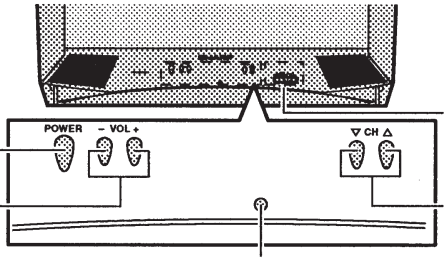


AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les téléviseurs présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue. Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.
Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque " ⚠ " et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques.
Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies, radiations X ou autres accidents.

LOCATION OF USER'S CONTROL

Front Panel



POWER
Press → On.
Press again → Off.

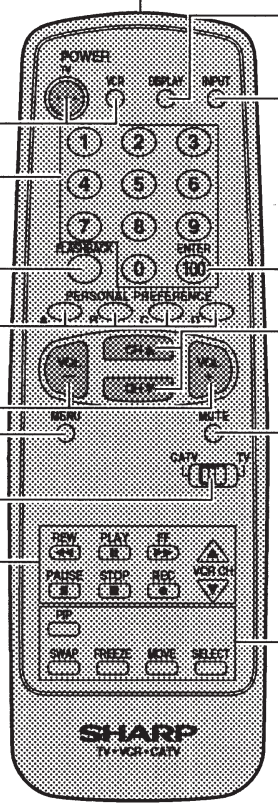
VOLUME UP/DOWN
(+) Increases sound.
(–) Decreases sound.

VIDEO/AUDIO IN 2 TERMINALS
(VIDEO/AUDIO terminals are also provided on the rear.)

CHANNEL UP/DOWN
(▲) Selects next higher channel.
(▼) Selects next lower channel.

SENSOR AREA FOR REMOTE CONTROL

Basic Remote Control Functions



POWER
Press → On.
Press again → Off.

REMOTE KEYPAD
Accesses any channel from keypad.

FLASHBACK
Returns to previous channel.

PERSONAL PREFERENCE
With the Personal Preference buttons, you can program your favorite programs by using the 4 categories A, B, C and D. The channels can be accessed quickly by using these buttons.

VOLUME UP/DOWN
(+) Increases sound.
(–) Decreases sound.
• In menu mode, changes or selects the TV adjustments.

MENU
Press → Accesses MAIN MENU.
Press again → Exits MAIN MENU.

TV-CATV MODE SELECT SWITCH
In TV position, sends power and channel select commands (Channel up/down and Random Access buttons) to the TV.
In CATV position, sends power and channel select commands to a cable TV converter.

VCR CONTROL

Infrared Transmitter Window

DISPLAY
Press → Displays receiving channel for 4 seconds.
Press again → Removes display.
• Temporarily displays receiving channel when in Closed Caption mode.

INPUT
Press → Switch to external video INPUT 1 mode.
Press again → Switch to external video INPUT 2 mode.
Press 3 times → Switch back to the original TV mode.

ENTER
Used in some instances where a VCR or Cable Converter Box requires an "enter" command after selecting channels, when using the REMOTE KEYPAD button.

CHANNEL UP/DOWN
(▲) Selects next higher channel.
(▼) Selects next lower channel.
• Moves the " ⬍ " mark of the MENU screens.

MUTE
Press → Mutes sound.
Press again → Restores sound.
• CLOSED CAPTION appears when sound is muted.

PIP FUNCTION
With the VIDEO inputs, you can watch two pictures at the same time.

Note:

- The above shaded buttons on the Remote Control glow in the dark. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.
- The phosphorescent material contains no radioactive or toxic material, so it is safe to use.
- The degree of illumination will vary depending on the strength of lighting used.
- The degree of illumination will decrease with time and depending on the temperature.
- The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.
- Sunlight and fluorescent lighting are the most effective when charging the display.

INSTALLATION AND SERVICE INSTRUCTIONS

Note: (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdrivers or TV alignment tools.
(2) Before performing adjustments, the TV set must be on at least 15 minutes.

CIRCUIT PROTECTION

The receiver is protected by a 5.0A fuse (F701), mounted on PWB-A, wired into one side of the AC line input.

X-RADIATION PROTECTOR CIRCUIT TEST

After service has been performed on the horizontal deflection system, high voltage system, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:

1) Apply 120V AC using a variac transformer for accurate input voltage.
2) Allow for warm up and adjust all customer controls for normal picture and sound.
3) Receive a good local channel.
4) Connect a digital voltmeter to TP653 and make sure that the voltmeter reads 13.8 ±0.7V.(32K-S400, CK32S40)/13.2 ± 0.7V(36K-S400, CK36S40).
5) Apply external 16.7V DC (32K-S400, CK32S40), 16.2V DC (36K-S400, CK36S40) at TP653 by using an external DC supply, TV must be shut off.
6) To reset the protector, unplug the AC cord and plug the AC cord power on. Now make sure that normal picture appears on the screen.
7) If the operation of the horizontal oscillator does not stop in step 5, the circuit must be repaired before the set is returned to the customer.

HIGH VOLTAGE CHECK

High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:

1. Connect an accurate high voltage meter between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service adjustment "S19" and Bus data "01" (Y-mute on).
4. The voltage should be approximately, 32.8kV(32K-S400, CK32S40)/33.4kV(36K-S400, CK36S40) (at zero beam).
   If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.

Note: There are still a few analog adjustments in this series such as focus and master screen voltage. Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.

1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

2. Service number selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "S01" to "P07". Select the item you wish to adjust.

3. Data number selection

Press the Vol-up or down button to adjust the data number.

To enter the service mode and exit service mode.

While pressing the Vol-up and Ch-up buttons at the sametime, plug the AC cord into a wall socket.
Now the TV set is switched on and enters the service mode.
To exit the service mode, turn the television off by pressing the power button.

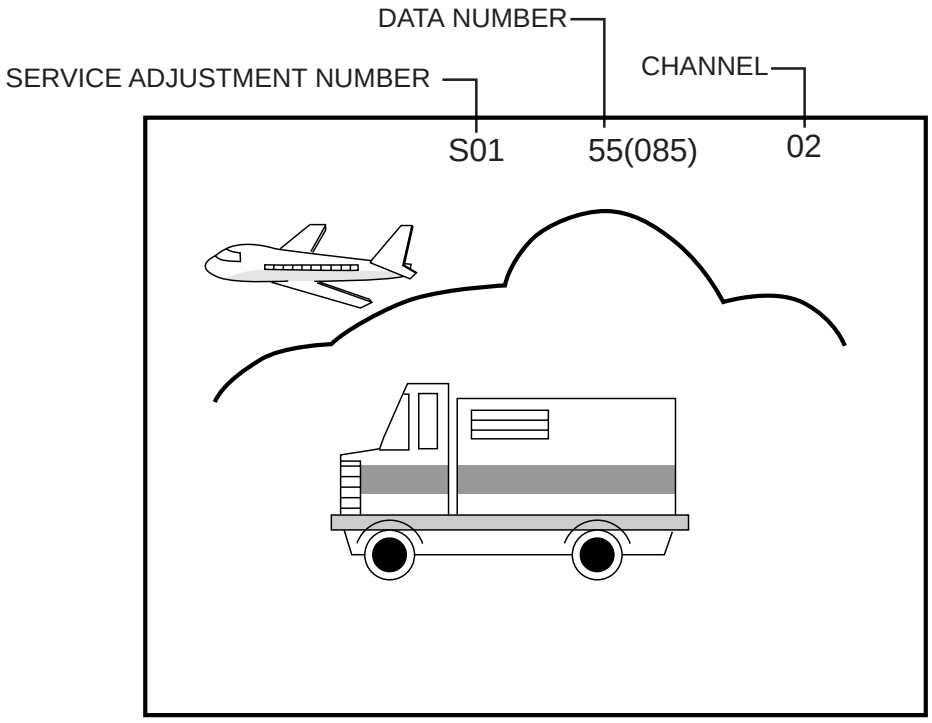


Figure A.

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		ADJUSTMENT CONTENTS
		INITIAL VALUE	RANGE	
S01	PICTURE	55	00-7F	
S02	TINT	46	00-7F	
S03	COLOR	32	00-7F	
S04	BRIGHTNESS	40	00-7F	
S05	SHARPNESS	24	00-3F	Must be set to "24"
S06	VERTICAL PHASE	00	00-07	Must be set to "00"
S07	HORIZONTAL PHASE	12	00-1F	
S08	RF-AGC	23	00-3F	
S09	VERTICAL AMP	20	00-3F	
S10	VCO	2C	00-7F	
S11	R CUT-OFF	00	00-FF	
S12	G CUT -OFF	00	00-FF	
S13	B CUT-OFF	00	00-FF	
S14	G GAIN	7F	00-FF	
S15	B GAIN	7F	00-FF	
S16	TRAP(3.58MHz)	00	00 or 01	Must be set to "01"
S17	BALANCE	20	00-3F	Must be set to "20"
S18	C.C.POSITION	17	00-7F	
S19	Y-MUTE	00	00,01,03	"00" = NORMAL, "01" = No Y, "03" = No VERTICAL
OP	OPTION (Set to each mode)	7B	00-7F	Must be set to "7B"
M01	MTS LEVEL	0A	00-0F	
M02	STEREO-VCO	20	00-3F	
M03	FILTER	1C	00-3F	
M04	LOW SEPARATION	20	00-3F	
M05	HIGH SEPARATION	1B	00-3F	
P01	P in P Y-LEVEL	30	00-7F	
P02	P in P TINT	29	00-3F	Must be set to "27"
P03	P in P COLOR	2E	00-7F	
P04	P in P Y-OFFSET	09	00-1F	Must be set to "09"
P05	P in P H-POSITION	0A	00-FF	Must be set to "0A"
P06	P in P BURST GATE PULSE	00	00-7F	Must be set to "00"
P07	P in P FREE RUN	0B	00-0F	Must be set to "0B"

Table - A

Holding down both the CH-up/down buttons on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2101.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
IC2001		X	Data is stored in IC2101.
IC201	X		The adjustment is needed to compensate for characteristics of parts including IC201 and MTS level (M01).
IC2101	X		Holding down both the CH-up/down bottons on the TV set in the service mode for more than 2 seconds will automatically write the above initial values into IC2101. Then perform a complete adjustment.
CRT	X		Adjust items related to picture tube only.
IC3001	X		Adjust items related to MTS only (M01~M05).
IC1801	X		Adjust items related to P-IN-P only (P01~P07).

Table - B

■ SERVICE ADJUSTMENT

VCO Adjustment

1. Connect a digital voltmeter between pin (44) of IC201 and ground.
2. Receive a good local channel.
3. Enter the service mode and select the service adjustment "S10".
4. Adjust the data so that digital voltmeter reads 2.2V.
5. Adjustment is completed, remove the voltmeter, return to "normal" mode.

RF AGC Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S08".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.
   Note 1 : You will have to come out of the service mode to select another channel.
   Note 2 : Setting the data to "00" will produce a black raster.

Screen Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S03" and set the data value to "00" to set the color level to minimum. (Record original data code under adjustment "S03" before changing) You may skip this step, if you selected a B/W picture or monoscope pattern.
3. Select the service adjustment "S19" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
4. Select the service adjustment "S04" and adjust data value to "4B".
5. Adjust the master screen cotrol until the raster darkens to the point where raster is barely seen.
6. Adjust the service adjustments "S11" red, "S12" green and "S13" blue to obtain a good grey scale with normal whites at low brightness level.
7. Select the service adjustment "S19" and reset data to "00". Select the service adjustment "S03" and reset data to obtain normal color level.
8. Reset the master screen control to obtain normal brightness range.

White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S03" and set to "00" (minimum color)(Record original data code under adjustment "S03" before changing). "S03" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust the service adjustment data of "S14" and "S15" until a good grey scale with normal whites is obtained.
4. Select the service adjustment "S03" and adjust data to obtain normal color level.

Sub-Picture Adjustment

1. Receive a good local channel.
2. Make sure the customer picture control is set to maximum.
3. Enter the service mode and select the service adjustment "S01".
4. Adjust the data value to achieve normal contrast range.

Sub-Tint Adjustment

1. Receive a good local channel.
2. Set customer tint control to center of it's range.
3. Enter the service mode and select the service adjustment "S02".
4. Adjust "S02" data value to obtain normal flesh tones.

Sub-Color Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position .
3. Enter the service mode and select service adjustment "S03".
4. Adjust "S03" data value to obtain normal color level.

Sub-Brightness Adjustment

1. Have unit receive a good local channel.
2. Make sure the customer brightness control is set to center position.
3. Enter the service mode and select the service adjustment "S04".
4. Adjust "S04" data value to obtain normal brightness level.

Vertical-Size and Linearity Adjustments

1. Have unit receive a good local channel.
2. Enter the service mode and select the service adjustment "S09".
3. While observing the top and bottom of the screen, adjust "S09" data value to proper vertical size.

Vertical Phase Adjustment

1. Enter the service mode and select the service adjustment "S06".
2. Adjust data value to "00".
   Note: This must be set "00" when changed data retrace line will appear.

Horizontal Position Adjustment

1. Have unit receive a good local channel.
2. Enter the service mode and select the service adjustment "S07".
3. Adjust "S07" data value so that picture is centered.

Caption Position Adjustment (Horizontal)

1. Have unit receive a good local channel.
2. Enter the service mode and select the service adjustment "S18".
3. A black text box appears on the screen. (see **Figure B** below)
4. Adjust "S18" data value so that text box is positioned in the center of the screen.

3.58MHz Trap Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S16".
3. This is a two position adjustment, "00" is ON, "01" is OFF.
4. Adjust data value to "01" for normal viewing.

Sharpness and Audio Balance Adjustments

1. Receive a good local channel.
2. Enter the service mode and select the service adjustments "S05" for sharpness and "S17" for balance.

- **Sharpness adjustment**

3. Adjust data value to "24"(center of data range) for sharpness adjustment.

- **Audio balance adjustment**

4. Adjust data value to "20"(center of data range) for Audio balance adjustment.

Vertical Center Adjustment

1. Have unit receive a good CATV channel.
2. Adjust the S502 so that the picture is centered.

Side Pincushion Adjustment

1. Have unit receive a good CATV channel or crosshatch pattern signal.
2. Adjust the R676 so that the outermost line on the screen be straight.

Horizontal Size Adjustment

1. Have unit receive a good CATV channel or crosshatch pattern signal.
2. Adjust the R678 so that the best horizontal size.

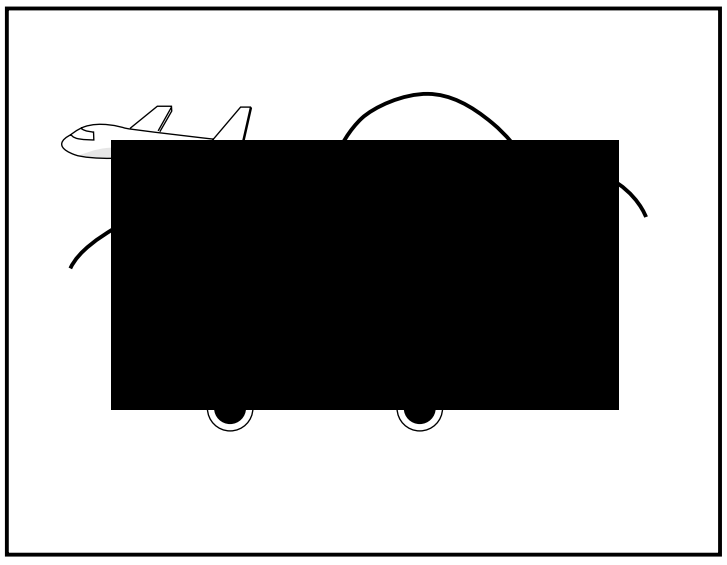


Figure B.

■ MTS ADJUSTMENT

MTS Level Adjustment

1. Feed the following monaural signal to pin (14) of IC3001.
   Monaural signal : 300Hz, 245mVrms
2. Connect the rms voltmeter to pin (39) of IC3001.
3. Enter the service mode and select the service adjustment "M01".
4. Adjust the data so that the rms voltmeter reads.
   Spec : 490 ±10mVrms.

MTS VCO Adjustment

1. Keep the unit in no-signal state.
2. Connect the frequency counter to pin (39) of IC3001.
3. Connect a capacitor (100µF, 50V) in between positive(+) side of C3005 and ground.
4. Enter the service mode and select the service adjustment "M02"
5. Adjust the data so that the frequency counter reads.
   Spec : 62.94 ±0.75kHz.

Filter Adjustment

1. Feed the following stereo pilot signal to pin (14) of IC3001 .
   Stereo pilot signal: 9.4kHz, 600mVrms.
2. Enter the service mode and select the service adjustment "M03".
3. Adjust the data until "OK" appears in position on the screen. Make sure the "OK" is displayed almost at the center of the data range.

Separation Adjustment

1. Connect the rms voltmeter to pin (39) of IC3001.
2. Receive the following composite stereo signal 1.
   Composite stereo signal: 30% modulation, left channel only, noise reduction on, 300Hz
3. Enter the service mode and select the service adjustment "M04".
4. Adjust the data until the AC voltage reading of the RMS voltmeter is minimum.
5. Receive the following composite stereo signal 2.
   Stereo signal: 30% modulation, left channel only, noise reduction on, 3kHz
6. Enter the service mode and select the service adjustment "M05".
7. Adjust the data until the AC voltage reading of the RMS voltmeter is minimum.
8. Take the above steps 1 thru 8 again for fine adjustment.

■ P-IN-P ADJUSTMENT

P-IN-P Y LEVEL Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "P01".
3. Adjust "P01" data value to obtain normal contrast level.

P-IN-P TINT Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "P02".
3. Adjust data value to "27".

P-IN-P COLOR Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position.
3. Enter the service mode and select service adjustment "P03".
4. Adjust "P03" data value to obtain normal color level.

P-IN-P Y-OFF SET Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "P04".
3. Adjust data value to "09".

P-IN-P H-POSITION Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "P05".
3. Adjust data value to "0A".

P-IN-P BURST GATE PULSE (for MAIN)

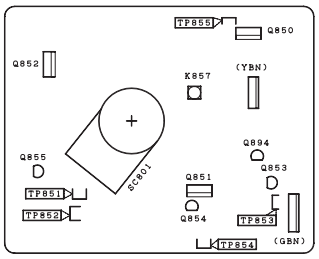
1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "P06".
3. Adjust data value to "00".

P-IN-P FREE RUN

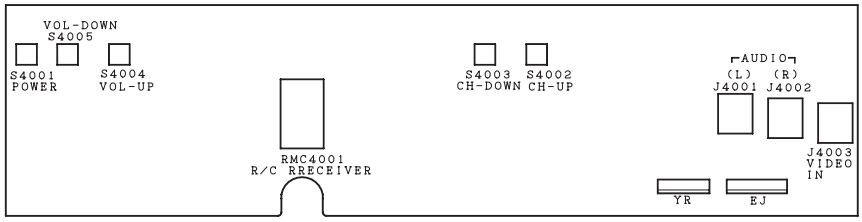
1. Receive a good local channel.
2. Enter the service mode and select service adjustment "P07".
3. Adjust data value to "0B".

CHASSIS LAYOUT

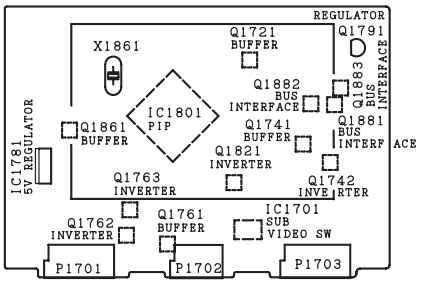
PWB-B



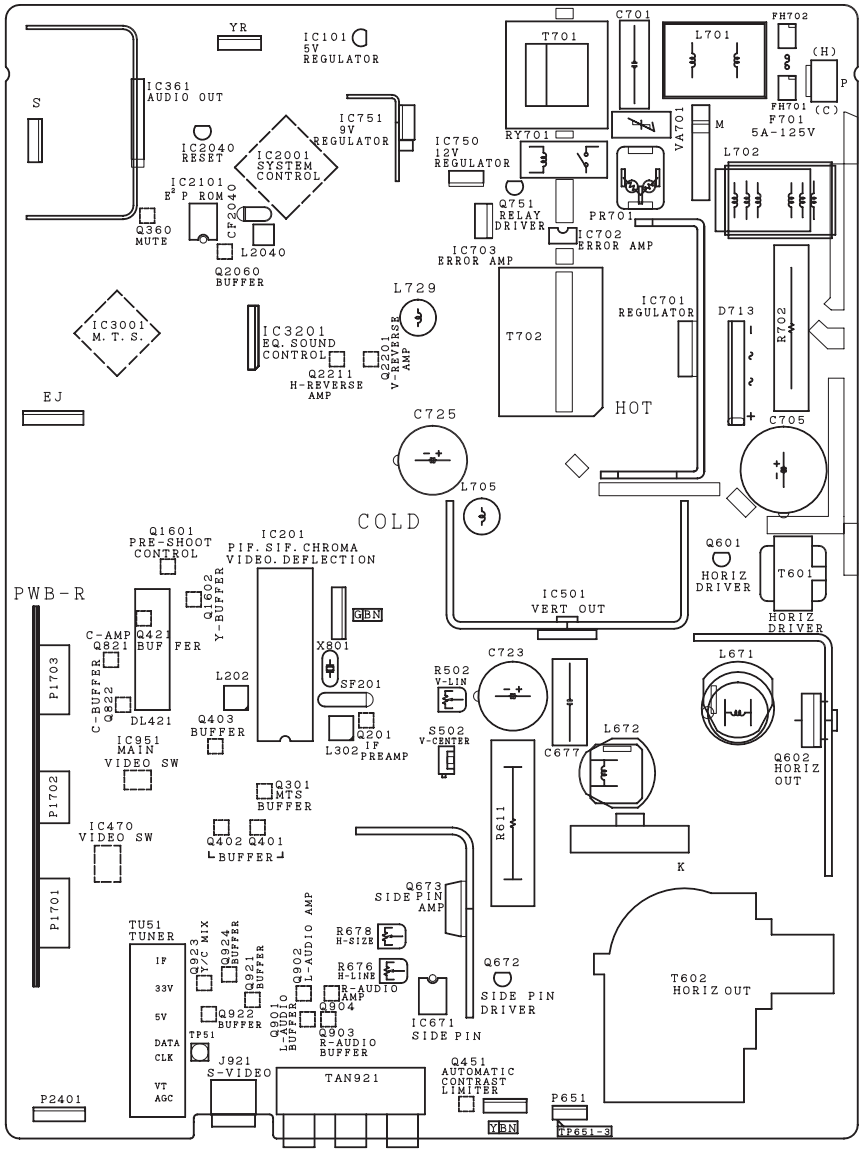
PWB-F



PWB-R

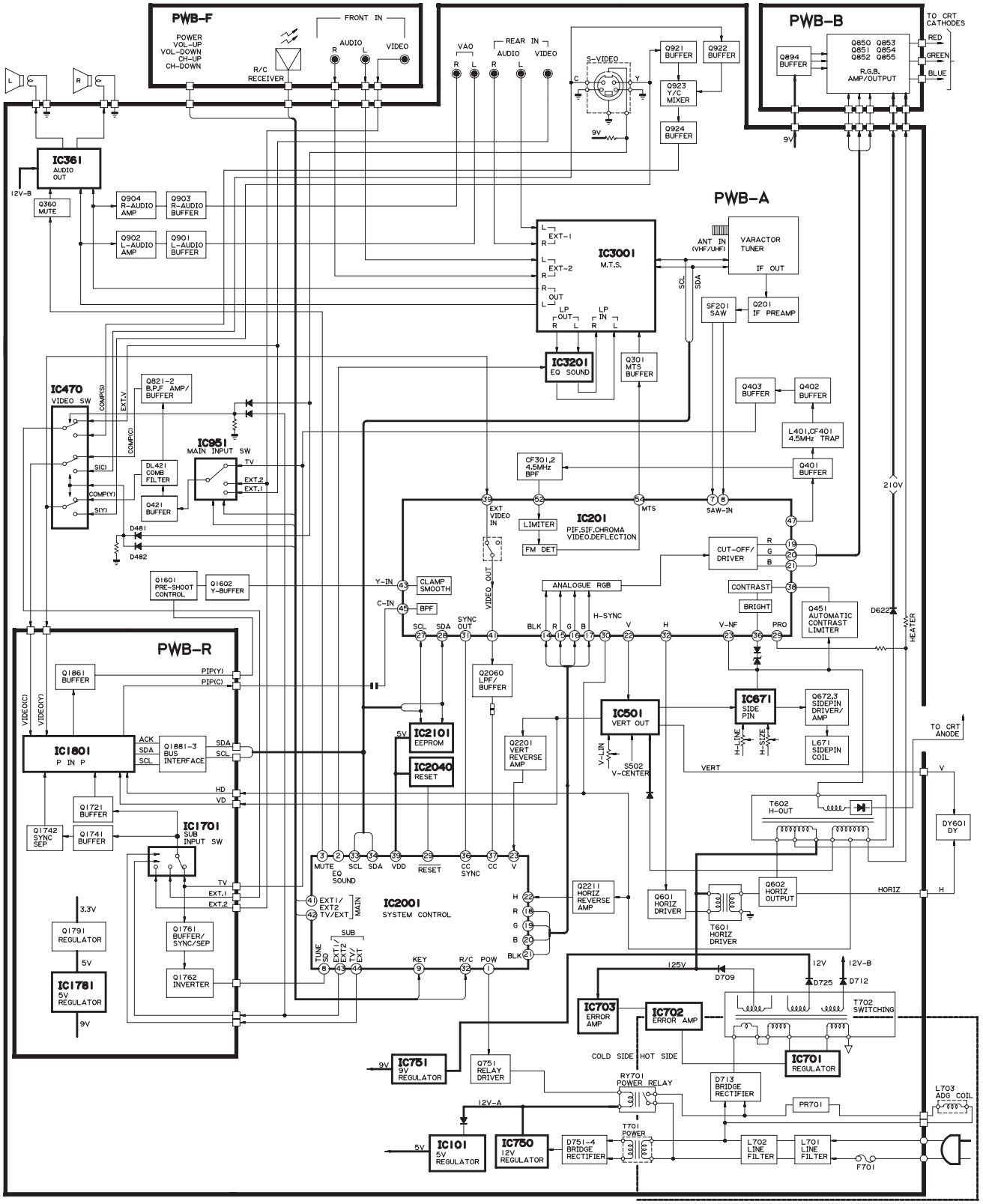


PWB-A



	1	2	3	4	5	6

BLOCK DIAGRAM



DESCRIPTION OF SCHEMATIC DIAGRAM

NOTES:

1. *The unit of resistance "ohm" is omitted. (K=kΩ=1000Ω, M=MΩ)*
2. *All resistors are 1/8 watt, unless otherwise noted.*
3. *All capacitors are μ F, unless otherwise noted. (P=pF=μμF)*
4. *(G) indicates ±2% tolerance may be used.*
5. ⏚ *indicates line isolated ground.*
6. ⏚ *indicates hot ground.*

VOLTAGE MEASUREMENT CONDITIONS:

1. *All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.*
2. *All voltages measured with 1000μ V B & W or Color signal.*

WAVEFORM MEASUREMENT CONDITIONS:

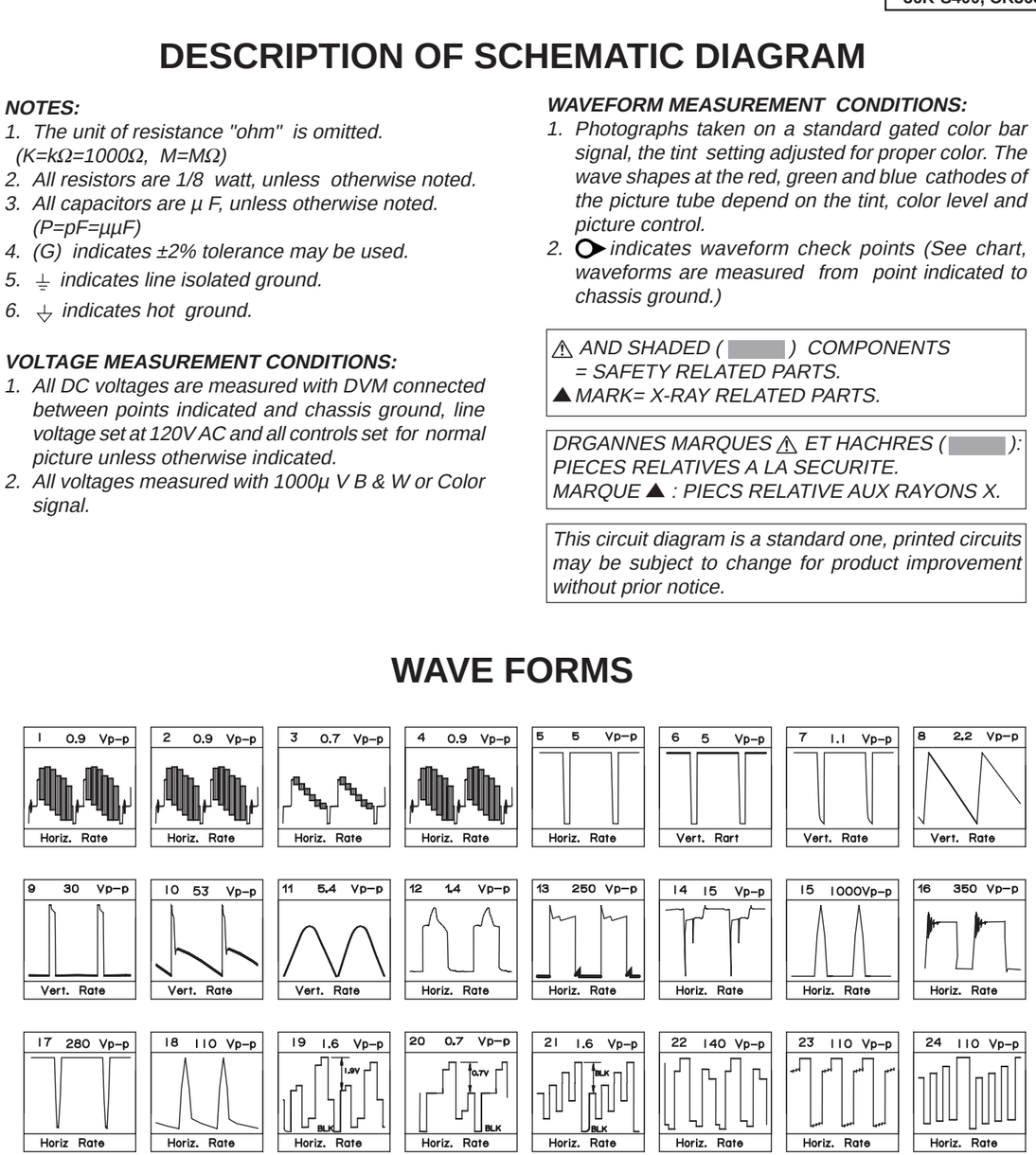
1. *Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.*
2. ◇ *indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)*

⚠ *AND SHADED ( ) COMPONENTS = SAFETY RELATED PARTS.*
▲ *MARK= X-RAY RELATED PARTS.*

DRGANNES MARQUES ⚠ ET HACHRES ( ): PIECES RELATIVES A LA SECURITE. MARQUE ▲ : PIECS RELATIVE AUX RAYONS X.

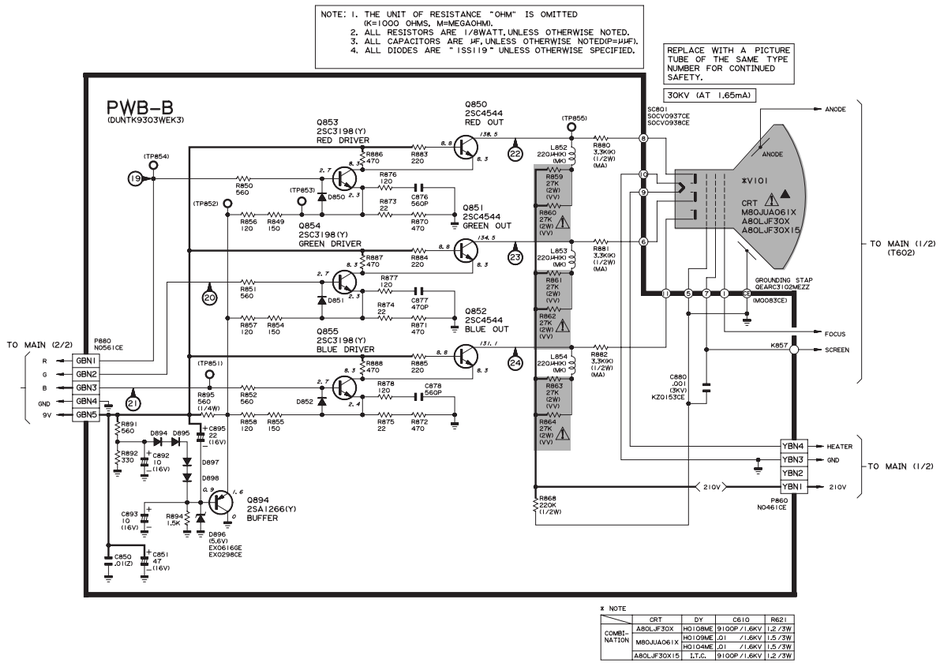
This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

WAVE FORMS



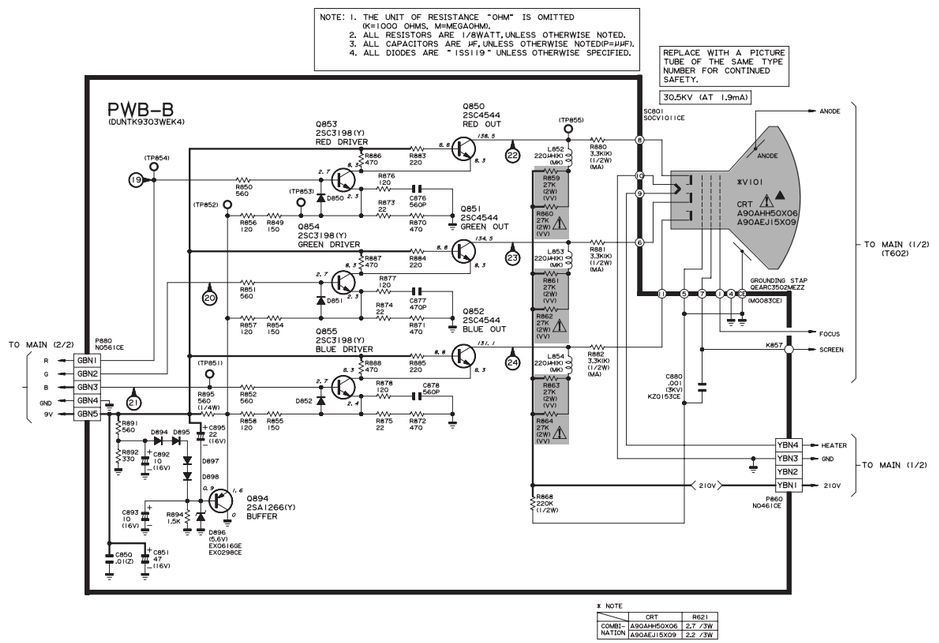
SCHEMATIC DIAGRAM: CRT Unit

MODELS 32K-S400, CK32S40



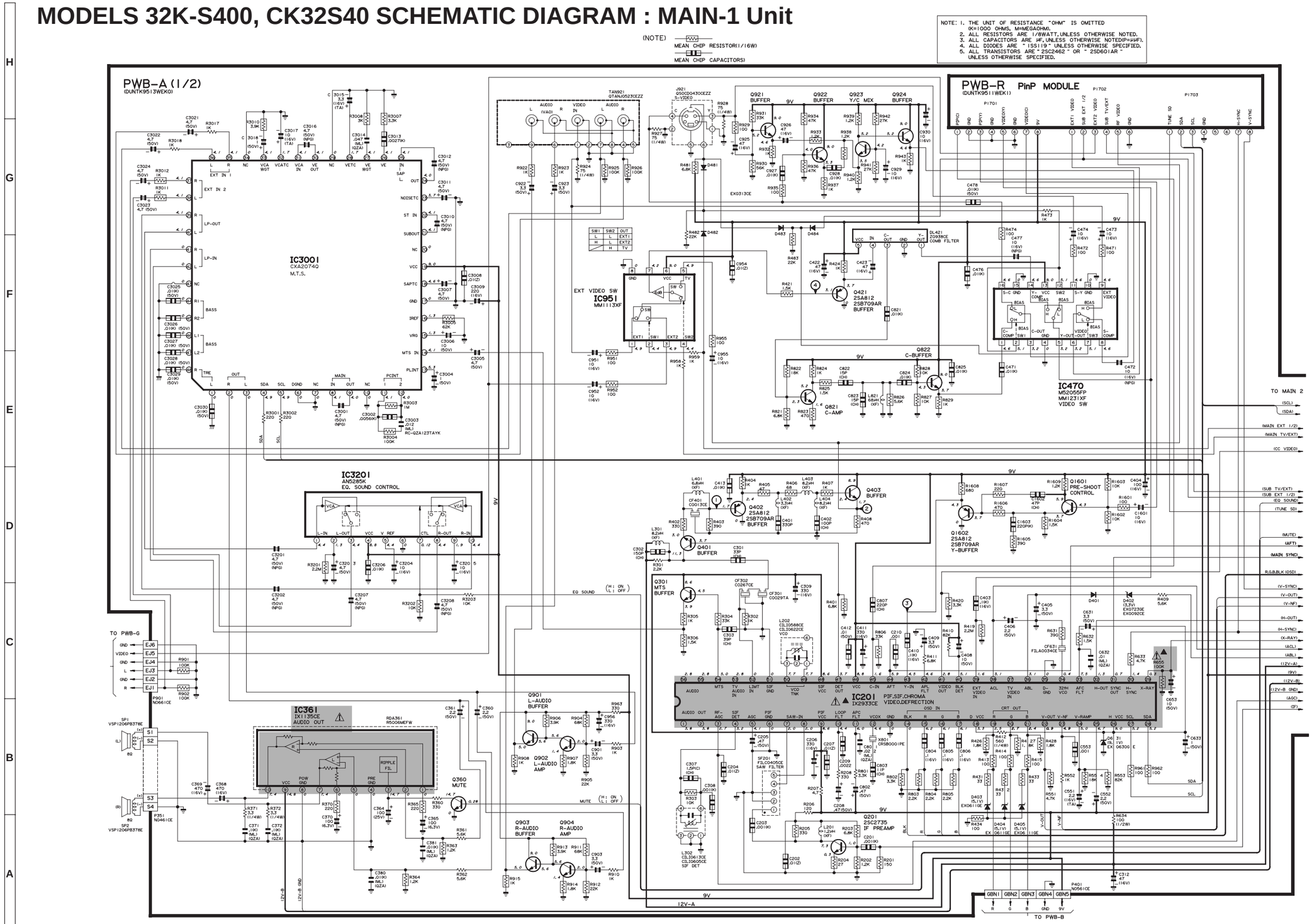
※ NOTE				
	CRT	DY	C610	R621
COMBI-NATION	A80LJF30X	H0109ME	9100P /1.6KV	1.2 /3W
	M80JJA061X	H0109ME	.01 /1.6KV	1.5 /3W
		H0104ME	.01 /1.6KV	1.5 /3W
	A80LJF30X15	T.T.C.	9100P /1.6KV	1.2 /3W

MODELS 36K-S400, CK36S40



※ NOTE		
	CRT	R621
COMBI-NATION	A90AHH50X06	2.7 /3W
	A90AEJ15X09	2.2 /3W

MODELS 32K-S400, CK32S40 SCHEMATIC DIAGRAM : MAIN-1 Unit



MODELS 32K-S400, CK32S40 SCHEMATIC DIAGRAM : MAIN-2 Unit

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2. ALL RESISTORS ARE 1/8WATT, UNLESS OTHERWISE NOTED.
3. ALL CAPACITORS ARE μF, UNLESS OTHERWISE NOTED(P=μμF).
4. ALL DIODES ARE " 1SS119 " UNLESS OTHERWISE SPECIFIED.
5. ALL TRANSISTORS ARE " 2SC2462 " OR " 2SD601AR " UNLESS OTHERWISE SPECIFIED.

(NOTE)
MEAN CHIP RESISTOR(1/16W)
MEAN CHIP CAPACITORS)

PWB-A (2/2)
(DUNTK9513WEKO)

IC2040 KIA7045P PST994C RESET
IC2101 IX2447CEN1 IX2448CEN1 E²P ROM
IC2001 IX3088CE SYSTEM CONTROL
IC501 TA8427K/ IX1224CE VERT. OUT
IC101 KA78S05P 5V REGULATOR
IC750 KA7812P 12V REGULATOR
IC751 KA7809PI 9V REGULATOR
IC701 STRF6516 REGULATOR
IC703 SE125N ERROR AMP
IC702 FX0002GE ERROR AMP
IC671 UPC358C SIDE PIN
Q2060 BUFFER
Q2211 H-REVERSE AMP
Q2201 V-REVERSE AMP
Q672 2SA1266 (Y) SIDE PIN DRIVER
Q673 2SD2045 SIDE PIN AMP
Q751 2SC3198(Y) RELAY DRIVER
Q451 AUTOMATIC CONTRAST LIMITER
Q601 2SC2482 HORIZ DRIVER
Q602 2SD2500 BU2520AX HORIZ OUT

TO PWB-G
TO MAIN I
TO PWB-B
(HOT GROUND)
(COLD GROUND)
THIS AREA IS HOT SIDE.
THIS AREA IS COLD SIDE.
LINE CORD PLUG IS POLARIZED. THE NARROW BLADE CONNECTS TO THE HOT SIDE OF THE AC LINE.

MODELS 36K-S400, CK36S40 SCHEMATIC DIAGRAM : MAIN-1 Unit

(NOTE)
MEAN CHIP RESISTOR(1/16W)
MEAN CHIP CAPACITORS)

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGA(OHM).
2. ALL RESISTORS ARE 1/8WATT, UNLESS OTHERWISE NOTED.
3. ALL CAPACITORS ARE μF, UNLESS OTHERWISE NOTED(P=μμF).
4. ALL DIODES ARE " 1SS119 " UNLESS OTHERWISE SPECIFIED.
5. ALL TRANSISTORS ARE " 2SC2462 " OR " 2SD601AR " UNLESS OTHERWISE SPECIFIED.

PWB-A (1/2)
(DUNTK9513WEK1)

IC3001
CXA2074Q
M.T.S.

IC951
MM1113XF
MAIN VIDEO SW

IC3201
AN5285K
EQ. SOUND CONTROL

IC361
IX1135CE
AUDIO OUT

IC201
IX2933CE
PIF,SIF,CHROMA VIDEO,DEFRECTION

IC470
M52055FP
MM1231XF
VIDEO SW

PWB-R PinP MODULE
(DUNTK9511WEK1)

Q921 BUFFER
Q922 BUFFER
Q923 Y/C MIX
Q924 BUFFER
Q822 C-BUFFER
Q821 C-AMP
Q421 2SA812 2SB709AR BUFFER
Q402 2SA812 2SB709AR BUFFER
Q401 BUFFER
Q403 BUFFER
Q1602 2SA812 2SB709AR Y-BUFFER
Q1601 PRE-SHOOT CONTROL
Q201 2SC2735 PREAMP
Q301 MTS BUFFER
Q901 L-AUDIO BUFFER
Q902 L-AUDIO AMP
Q903 R-AUDIO BUFFER
Q904 R-AUDIO AMP
Q360 MUTE

TO PWB-G
TO PWB-B
TO MAIN 2
(SCL)
(SDA)
(MAIN EXT 1/2)
(MAIN TV/EXT)
(CC VIDEO)
(SUB TV/EXT)
(SUB EXT 1/2)
(EQ SOUND)
(TUNE SD)
(MUTE)
(AFT)
(MAIN SYNC)
R.G.B.BLK (OSD)
(V-SYNC)
(V-OUT)
(V-NF)
(H-OUT)
(H-SYNC)
(X-RAY)
(ACL)
(ABL)
(12V-A)
(9V)
(12V-B)
(12V-B GND)
(ASC)
(IF)

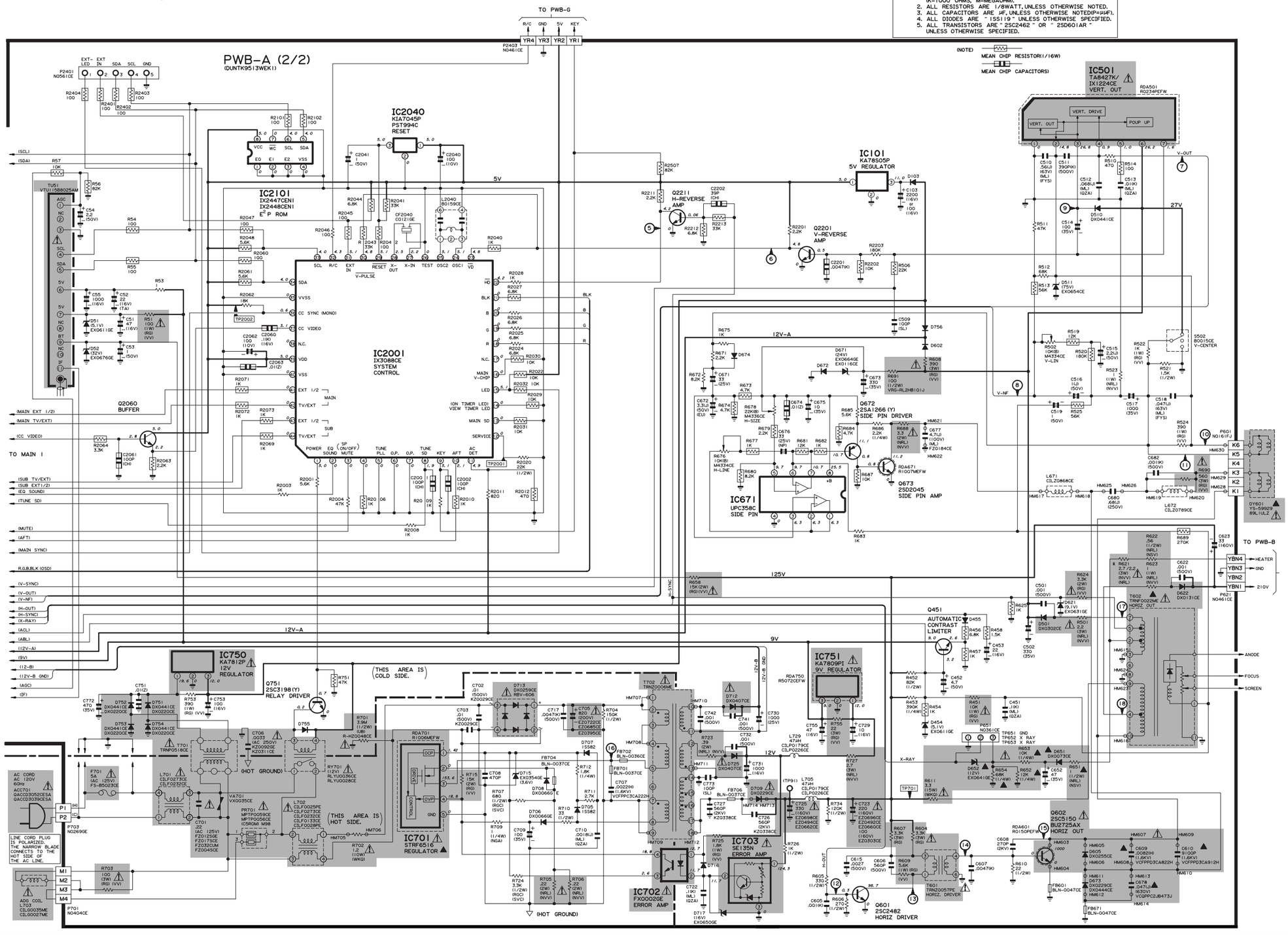
9V
12V-A
12V-B
12V-B GND

32K-S400, CK32S40	32K-S400, CK32S40
36K-S400, CK36S40	36K-S400, CK36S40

MODELS 36K-S400, CK36S40 SCHEMATIC DIAGRAM : MAIN-2 Unit

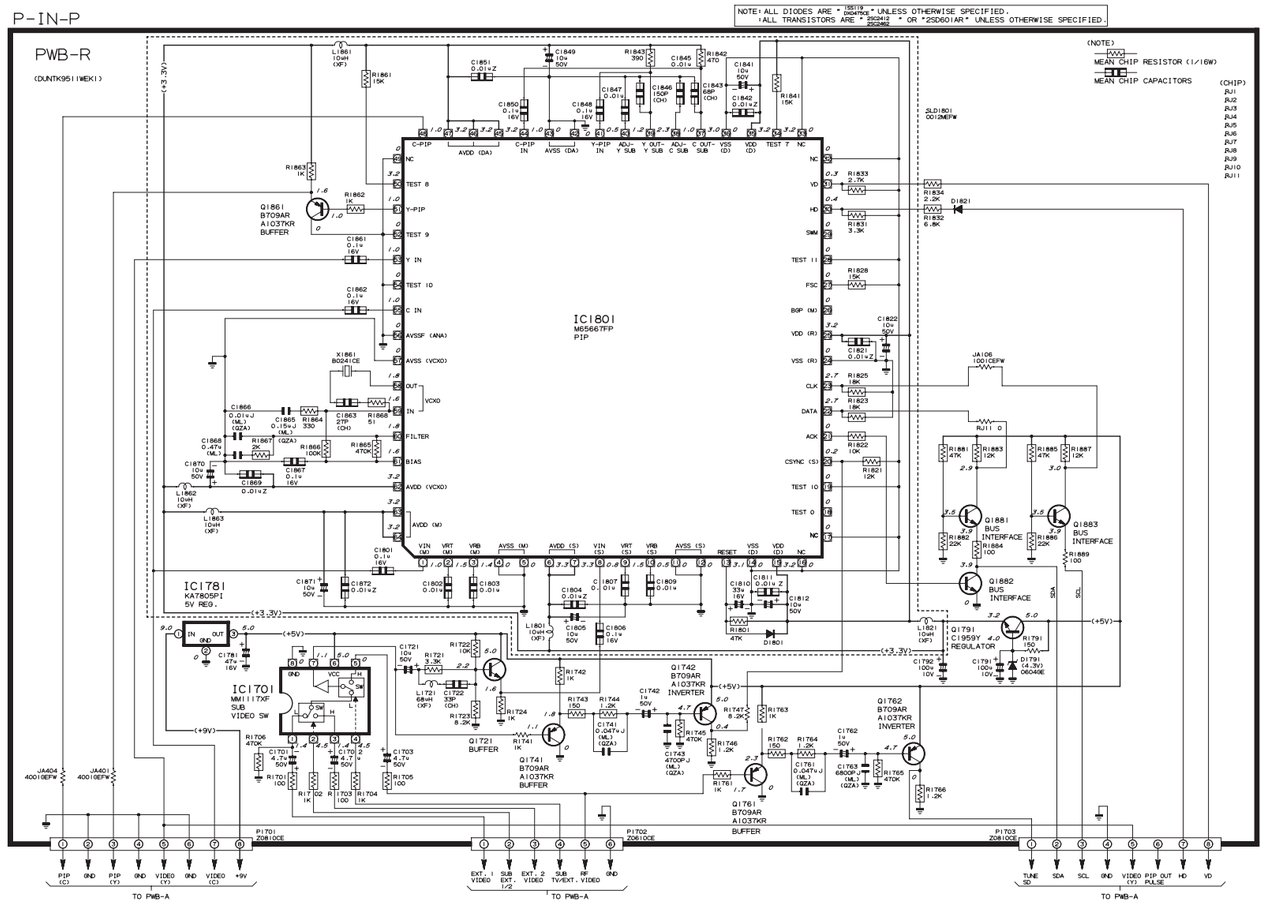
NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2. ALL RESISTORS ARE 1/8WATT, UNLESS OTHERWISE NOTED.
3. ALL CAPACITORS ARE μF, UNLESS OTHERWISE NOTED(P=μμF).
4. ALL DIODES ARE " 1SS119 " UNLESS OTHERWISE SPECIFIED.
5. ALL TRANSISTORS ARE " 2SC2462 " OR " 2SD601AR " UNLESS OTHERWISE SPECIFIED.

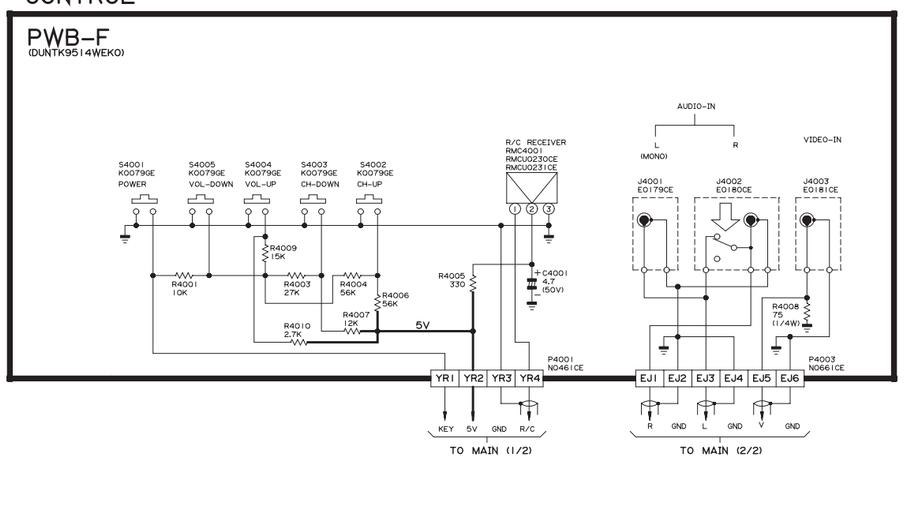
(NOTE)
MEAN CHIP RESISTOR(1/16W)
MEAN CHIP CAPACITORS)



32K-S400, CK32S40	32K-S400, CK32S40
36K-S400, CK36S40	36K-S400, CK36S40

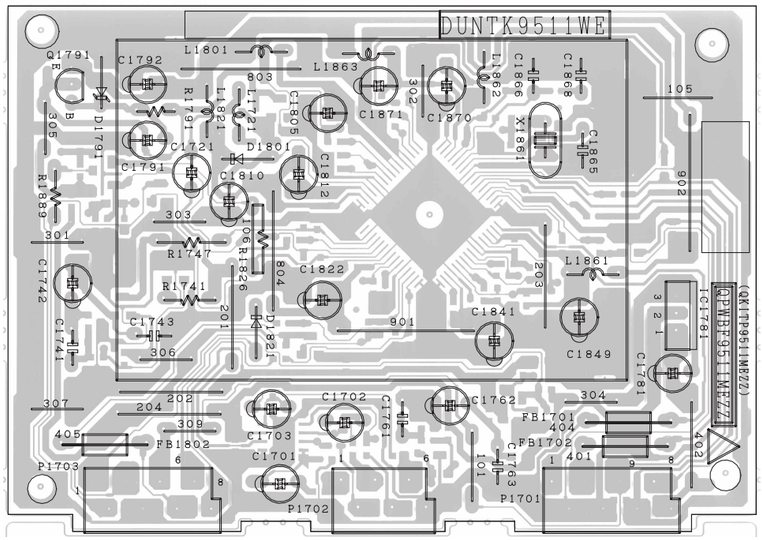
SCHEMATIC DIAGRAM : P-IN-P, CONTROL Unit



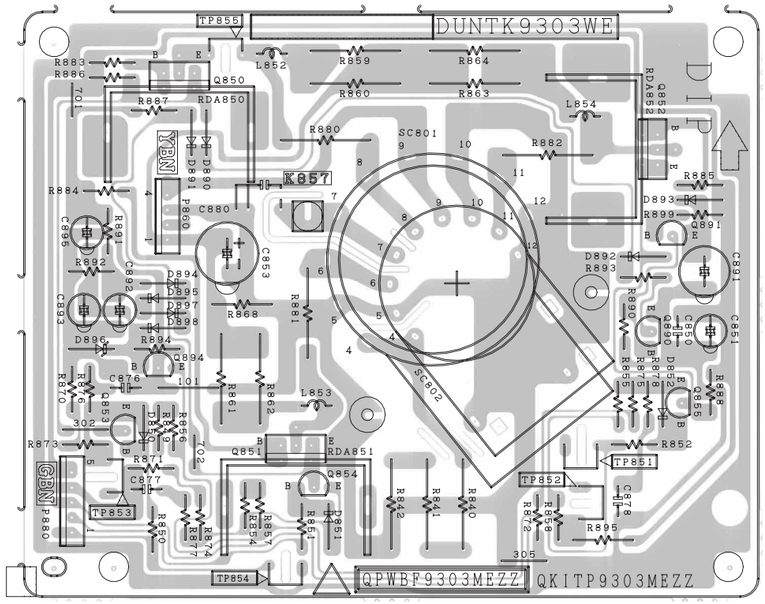


32K-S400, CK32S40	32K-S400, CK32S40
36K-S400, CK36S40	36K-S400, CK36S40

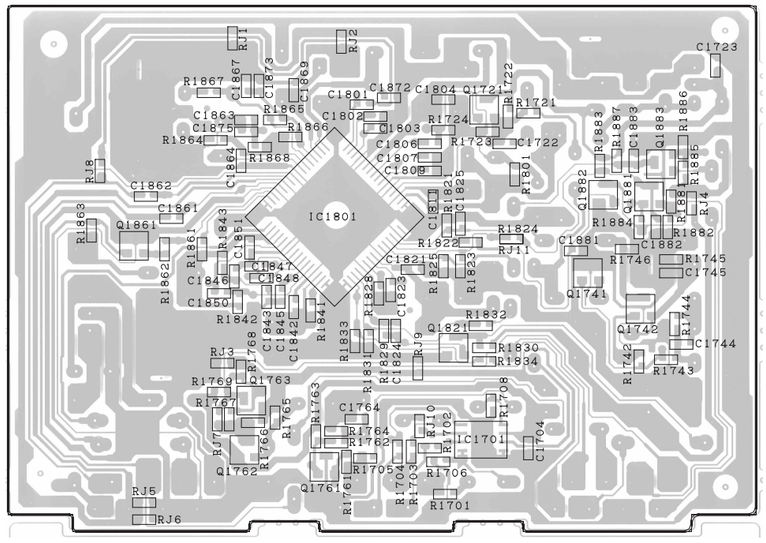
PRINTED WIRING BOARD ASSEMBLIES



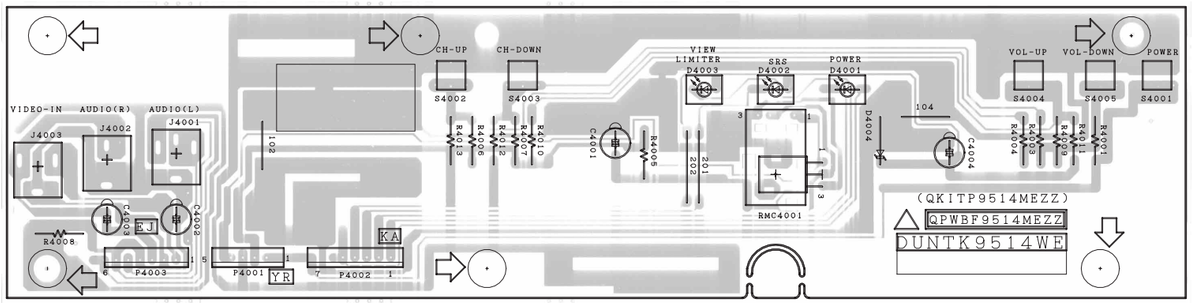
PWB-R: P-IN-P Unit (Wiring Side)



PWB-B: CRT Unit (Wiring Side)

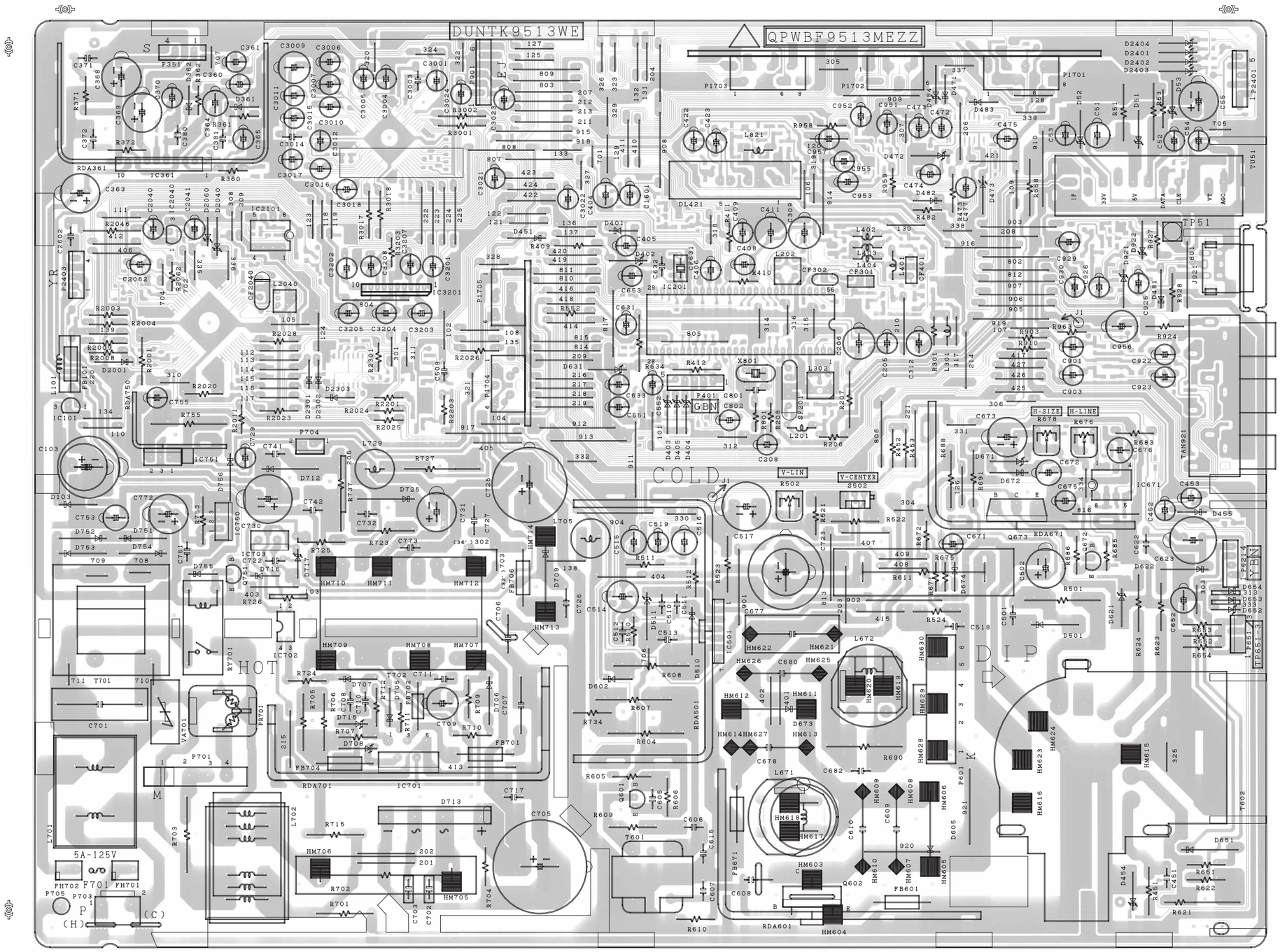


PWB-R: P-IN-P Unit (Chip Parts Side)



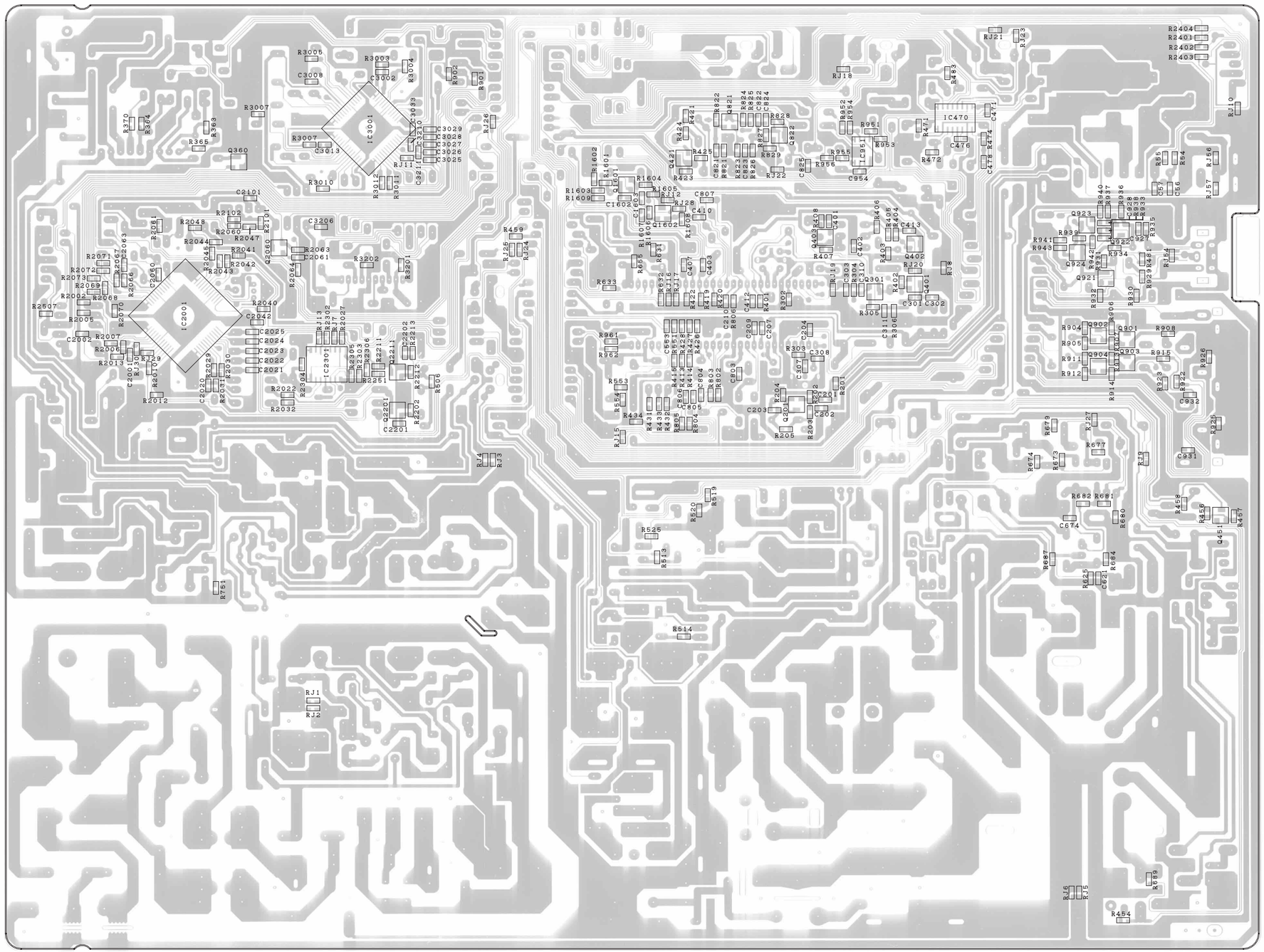
PWB-F: CONTROL Unit (Wiring Side)

32K-S400, CK32S40	32K-S400, CK32S40
36K-S400, CK36S40	36K-S400, CK36S40



PWB-A: MAIN Unit (Wiring Side)

32K-S400, CK32S40	32K-S400, CK32S40
36K-S400, CK36S40	36K-S400, CK36S40



PWB-A: MAIN Unit (Chip Parts Side)

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by ⚠ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which dose no have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER 2. REF. NO.
3. PART NO. 4. DESCRIPTION

in **USA**: Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

MARK★: SPARE PARTS-DELIVERY SECTION

▲ MARK : X- RAY RELATED PARTS

LISTE DES PIECES

CHANGE DES PIECES

Les pi`eces de rechange qui pr élelesentent ces caract éleristiques sp éleciales de s élecurit éle, sont identifi élees dans ce manuel : les pi`eces élelectriques qui pr élesentent ces particularit éles, sont rep éler élee par la marque ⚠ et sont hachur élees dans les listes de pi`eces et dans les diagrammes sch élematiques.
La substitution d'une pi`ece de rechange par une autre qui ne pr éLesente pas les m éoemes caract éLeristiques de s élecurit éle que la pi`ece recommand élee parl'usine et dans ce manuel de service, peut provoquer une éLelectrocution, un incendie ou toutautre sinistre.

"COMMENT COMMANDER LES PIECES DE RECHANGE"

Pour que votre commande soit rapidement et correctement remplie, veuillez fournir les renseignements suivants.

1. NUMERO DU MODELE 2. NO. DE REF
3. NO. DE PIECE 4. DESCRIPTION

in **CANADA**: Contact SHARP Electronics of Conada Limited Phone (416) 890-2100

★MARQUE: SECTION LIVRAISON DES PIECES DE RECHANGE

▲ MARQUE : PIECES RELATIVE AUX RAYONS X

Ref. No.	Part No.	★	Description	Code

PICTURE TUBE

32K-S400, CK32S40

▲⚠	V101	VB80LJF3015*S	M	Picture Tube	DD
		or			
		VB80JUA061X*S			
		or			
		VB80JF30X15/			
▲⚠	DY601	RCiLH0108MEZZ	M	Defrection Yoke	
		or			
		RCiLH0109MEZZ			
		or			
		RCiLH0104MEZZ			

	V101	DY601	C610	R621
Combi-	A80LJF30X	H0108ME	9100p(1.6kV)	1.2(3W)
nation	M80JUA061X	H0109ME	0.01(1.6kV)	1.5(3W)
		H0104ME	0.01(1.6kV)	1.5(3W)
	A80LJF30X15	—	9100p(1.6kV)	1.2(3W)

⚠	L703	RCiLG0034MEZZ	M	Degaussing Coil	AV
		or			
		RCiLG0028MEZZ			AZ
		MSPRT0002MEZZ	M	Spring for CRT	AA
		QEARC3102MEZZ	M	Ground-Part	AH

36K-S400, CK36S40

▲⚠	V101	VB90AHH50X06S	M	Picture Tube (with D.Y)	
		or			
		VB90AEJ15X09S			

	V101	R621
Combi-	A90AHH50X06	2.7(3W)
nation	A90AEJ15X09	2.2(3W)

⚠	L703	RCiLG0035MEZZ	M	Degaussing Coil	AW
		or			
		RCiLG0027MEZZ			AZ
		MSPRT0002MEZZ	M	Spring for CRT	AA
		QEARC3502MEZZ	M	Ground-Part	AH

PRINTED WIRING BOARD ASSEMBLIES *(NOT REPLACEMENT ITEM)*

PWB-A	DUNTK9513WEK0	–	MAIN Unit (32K-S400, CK32S40)	—
PWB-A	DUNTK9513WEK1	–	MAIN Unit (36K-S400, CK36S40)	—
PWB-B	DUNTK9303WEK3	–	CRT Unit (32K-S400, CK32S40)	—
PWB-B	DUNTK9303WEK4	–	CRT Unit (36K-S400, CK36S40)	—
PWB-F	DUNTK9514WEK0	–	CONTROL Unit	—
PWB-R	DUNTK9511WEK1	–	P-IN-P Unit	—

Ref. No.	Part No.	★	Description	Code

PWB-A: DUNTK9513WEK0(32K-S400, CK32S40)
PWB-A: DUNTK9513WEK1(36K-S400, CK36S40)
MAIN UNIT

TUNER

NOTE: THE PARTS HERES SHOWN ARE SUPPLIED AS AN ASSEMBLY NOT INDEPENEDENTLY.

⚠	TU51	VTU115B8025AM	M	Tuner	

INTEGRATED CIRCUITS

	IC101	VHiKA78S05P-1	J	KIA78S05P	AD
▲⚠	IC201	RH-iX2933CEZZ	J	TA1268N	AX
⚠	IC361	RH-iX1135CEZZ	J	LA4261	AH
	IC470	VHiM52055FP-1	J	M52055FP	AH
⚠	IC501	VHiTA8427K/-1	J	TA8427K	AL
		or			
		RH-iX1224CEZZ			AH
	IC671	VHiUPC358C/-1	J	UPC358C	AD
▲⚠	IC701	VHiSTRF65161E	J	STR-F6516	
⚠	IC702	RH-FX0002GEZZ	J	PS2501-1	AD
⚠	IC703	VHiSE125N//-1	J	SE125N (32K-S400, CK32S40)	
⚠	IC703	VHiSE135N//-1	J	SE135N (36K-S400, CK36S40)	
⚠	IC750	VHiKA7812Pi-1	R	KIA7812PI	AE
⚠	IC751	VHiKA7809Pi-1	R	KIA7809PI	AE
	IC951	VHiMM1113XF1E	J	MM1113XFBE	AE
	IC2001	RH-iX3088CEN2	J	IC	AU
	IC2040	VHiKiA7045P-1	J	KIA7045P	AD
	IC2101	RH-iX2447CEN1	J	ST24C01B6	AL
		or			
		RH-iX2448CEN1			
	IC3001	VHiCXA2074Q-1	J	CXA2074Q	AS
	IC3201	VHiAN5285K/-1	J	AN5285K	AP

TRANSISTORS

You can substitute "2SD601AR" for "2SC2462".

	Q201	VS2SC2735//1E	J	2SC2735	AC
	Q301	VS2SD601AR/-1	J	2SD601	AC
	Q360	VS2SD601AR/-1	J	2SD601	AC
	Q401	VS2SD601AR/-1	J	2SD601	AC
	Q402	VS2SB709AR/-1	J	2SB709	AC
	Q403	VS2SD601AR/-1	J	2SD601	AC
	Q421	VS2SB709AR/-1	J	2SB709	AC
	Q451	VS2SD601AR/-1	J	2SD601	AC
	Q601	VS2SC2482//-1	J	2SC2482	AD
⚠	Q602	VS2SD2500//2E	J	2SD2500 (32K-S400, CK32S40)	AT
⚠	Q602	VS2SC5150//2E	J	2SC5150 (36K-S400, CK36S40)	
	Q672	VS2SA1266-Y-1	J	2SA1266(Y)	AA
	Q673	VS2SD2045//-1	J	2SD2045	AL
	Q751	VS2SC3198-Y-1	J	2SC3198(Y)	AA
	Q821	VS2SD601AR/-1	J	2SD601	AC
	Q822	VS2SD601AR/-1	J	2SD601	AC
	Q901	VS2SD601AR/-1	J	2SD601	AC
	Q902	VS2SD601AR/-1	J	2SD601	AC
	Q903	VS2SD601AR/-1	J	2SD601	AC

Ref. No.	Part No.	★	Description	Code
Q904	VS2SD601AR/-1	J	2SD601	AC
Q921	VS2SD601AR/-1	J	2SD601	AC
Q922	VS2SD601AR/-1	J	2SD601	AC
Q923	VS2SD601AR/-1	J	2SD601	AC
Q924	VS2SD601AR/-1	J	2SD601	AC
Q1601	VS2SD601AR/-1	J	2SD601	AC
Q1602	VS2SB709AR/-1	J	2SB709	AC
Q2060	VS2SD601AR/-1	J	2SD601	AC
Q2201	VS2SD601AR/-1	J	2SD601	AC
Q2211	VS2SD601AR/-1	J	2SD601	AC

DIODES

D51	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
D52	RH-EX0676GEZZ	J	Zener Diode, 32V	AA
D103	VHD1SS119//-1	J	Diode	AB
D401	VHD1SS119//-1	J	Diode	AB
D402	RH-EX0723GEZZ	J	Zener Diode, 3.3V	AB
	or			
	RH-EX0092CEZZ			
D403	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
D404	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
D405	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
D454	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
D455	VHD1SS119//-1	J	Diode	AB
D481	VHD1SS119//-1	J	Diode	AB
D482	VHD1SS119//-1	J	Diode	AB
D483	VHD1SS119//-1	J	Diode	AB
D484	VHD1SS119//-1	J	Diode	AB
⚠ D501	RH-DX0302CEZZ	J	Diode	AC
D510	RH-DX0441CEZZ	J	Diode	AC
D511	RH-EX0654CEZZ	J	Zener Diode, 75V	AD
D602	VHD1SS119//-1	J	Diode	AB
⚠ D605	RH-DX0255CEZZ	J	Diode	AC
D621	RH-EX0631GEZZ	J	Zener Diode, 9.1V	AA
D622	RH-DX0131CEZZ	J	Diode	AC
D631	RH-EX0630GEZZ	J	Zener Diode, 9.1V	AA
▲⚠ D651	RH-DX0073CEZZ	J	Diode	AD
▲⚠ D652	RH-EX0641GEZZ	J	Zener Diode, 12V	AA
▲⚠ D653	VHD1SS119//-1	J	Diode (32K-S400, CK32S40)	AB
▲⚠ D654	VHD1SS119//-1	J	Diode (32K-S400, CK32S40)	AB
D671	RH-EX0664GEZZ	J	Zener Diode, 24V	AA
D672	VHD1SS119//-1	J	Diode	AB
⚠ D673	RH-DX0229CEZZ	J	Diode	AF
	or			
	RH-DX0444CEZZ			
D674	VHD1SS119//-1	J	Diode	AB
D705	VHD1SS82///1A	J	Diode	AC
D706	RH-DX0066GEZZ	J	Diode	AB
D707	VHD1SS82///1A	J	Diode	AC
D708	RH-DX0066GEZZ	J	Diode	AB
⚠ D709	RH-DX0229CEZZ	J	Diode	AF
⚠ D712	RH-DX0407CEZZ	J	Diode	AD
⚠ D713	RH-DX0259CEZZ	J	Diode	AH
D715	RH-EX0354GEZZ	J	Zener Diode, 3.6V	AA
D716	VHD1SS119//-1	J	Diode	AB
D717	RH-EX0650GEZZ	J	Zener Diode, 16V	AB
⚠ D725	RH-DX0407CEZZ	J	Diode	AD

Ref. No.	Part No.	★	Description	Code
PWB-A: DUNTK9513WEK0(32K-S400, CK32S40) PWB-A: DUNTK9513WEK1(36K-S400, CK36S40) MAIN UNIT (Continued)				
⚠ D751	RH-DX0441CEZZ	J	Diode	AC
	or			
	RH-DX0220CEZZ			AB
⚠ D752	RH-DX0441CEZZ	J	Diode	AC
	or			
	RH-DX0220CEZZ			AB
⚠ D753	RH-DX0441CEZZ	J	Diode	AC
	or			
	RH-DX0220CEZZ			AB
⚠ D754	RH-DX0441CEZZ	J	Diode	AC
	or			
	RH-DX0220CEZZ			
D755	VHD1SS119//-1	J	Diode	AB
D756	VHD1SS119//-1	J	Diode	AB
⚠ VA701	RH-VX0035CEZZ	J	Varistor	AF
PACKAGED CIRCUITS				
⚠ PR701	RMPTP0059CEZZ	J	Packaged Circuit	AH
	or			
	RMPTP0056CEZZ			AH
X801	RCRSB0001PEZZ	R	Crystal	AL
FILTERS				
CF301	RFiLC0029TAZZ	J	Filter	AD
CF302	RFiLC0267CEZZ	J	Filter	AD
CF401	RFiLC0013CEZZ	J	Filter	AE
CF631	RFiLA0034CEZZ	J	Filter	AD
CF2040	RFiLC0121GEZZ	J	Filter	AD
SF201	RFiLC0405CEZZ	J	SAW Filter	AH
COILS				
L201	VP-XF1R2K0000	J	Peaking 1.2µH	AB
L202	RCiLi0588CEZZ	J	IF Coil	AF
	or			
	RCiLi0622CEZZ			
L301	VP-XF8R2K0000	J	Peaking 8.2µH	AB
L302	RCiLi0613CEZZ	J	IF Coil	AE
L401	VP-XF6R8K0000	J	Peaking 6.8µH	AB
L402	VP-XF3R3K0000	J	Peaking 3.3µH	AB
L403	VP-XF8R2K0000	J	Peaking 8.2µH	AB
L404	VP-XF8R2K0000	J	Peaking 8.2µH	AB
L671	RCiLZ0720CEZZ	J	Coil (32K-S400, CK32S40)	
L671	RCiLZ0868CEZZ	J	Coil (36K-S400, CK36S40)	AM
L672	RCiLZ0789CEZZ	J	Coil	AK
⚠ L701	RCiLF0273CEZZ	J	Coil	AM
	or			
	RCiLF0232CEZZ			AL
⚠ L702	RCiLF0025PEZZ	M	Coil	
	or			
	RCiLF0273CEZZ			AM
	or			
	RCiLF0232CEZZ			AL
	or			
	RCiLF0133CEZZ			
L705	RCiLP0179CEZZ	J	Coil	AD
	or			
	RCiLP0226CEZZ			
L729	RCiLP0179CEZZ	J	Coil	AD
	or			
	RCiLP0226CEZZ			
L821	VP-XF680K0000	J	Peaking 68µH	AB
L2040	RCiLB0159CEZZ	J	Oscillation Coil	AF
DL421	RCiLZ0938CEZZ	J	Coil	AW
TRANSFORMERS				
⚠ T601	RTRNZ0057PEZZ	R	H-driver	AK
▲⚠ T602	RTRNF0021MEZZ	J	H-out (32K-S400, CK32S40)	
▲⚠ T602	RTRNF0022MEZZ	J	H-out (36K-S400, CK36S40)	
⚠ T701	RTRNP0518CEZZ	J	Power	AN
⚠ T702	RTRNZ0006MEZZ	J	Transformer	
CONTROLS				
R502	RVR-M4334CEZZ	J	10k(B) V-line	AC
R676	RVR-M4334CEZZ	J	10k(B) H-line	AC
R678	RVR-M4336CEZZ	J	22k(B) H-size	AC
CAPACITORS				
[EL.··· Electrolytic, M-Poly.··· Metalized Polypro Film]				
C51	VCEA0A1CW476M	J	47 16V EL.	AB
C52	VCSATA1CE226K	J	22 16V Tantalum	AD
C53	VCEA0A1HW105M	J	1 50V EL.	AB
C54	VCEA0A1HW225M	J	2.2 50V EL.	AB
C55	VCEA0A1CW108M	J	1000 16V EL.	AD
C103	VCEA0A1CW228M	J	2200 16V EL.	AC
C201	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C202	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C203	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C204	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C205	VCEA0A1HW474M	J	0.47 50V EL.	AB
C206	VCEA0A1CW337M	J	330 16V EL.	AC
C207	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C208	VCEA0A1HW474M	J	0.47 50V EL.	AB
C209	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C210	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C301	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C302	VCCCCY1HH151J	J	150p 50V Ceramic	AA
C303	VCCCCY1HH390J	J	39p 50V Ceramic	AA
C307	VCCCCY1HH1R5C	J	1.5p 50V Ceramic	AD
C308	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C309	VCEA0A1CW337M	J	330 16V EL.	AC
C312	VCEA0A1CW476M	J	47 16V EL.	AB
C360	VCEA0A1HW225M	J	2.2 50V EL.	AB
C361	VCEA0A1HW225M	J	2.2 50V EL.	AB
C364	VCEA0A1EW107M	J	100 25V EL.	AC
C365	VCEA0A0JW107M	J	100 6.3V EL.	AB
C368	VCEA0A1CW477M	J	470 16V EL.	AC
C369	VCEA0A1CW477M	J	470 16V EL.	AC
C370	VCEA0A0JW107M	J	100 6.3V EL.	AB
C371	RC-QZA104TAYK	J	0.1 50V Mylar	AB
C372	RC-QZA104TAYK	J	0.1 50V Mylar	AB
C380	RC-QZA103TAYK	J	0.01 50V Mylar	AA

PWB-A: DUNTK9513WEK0(32K-S400, CK32S40)
PWB-A: DUNTK9513WEK1(36K-S400, CK36S40)
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C381	RC-QZA103TAYK	J	0.01	50V	Mylar	AA
C401	VCKYCY1HB331K	J	330p	50V	Ceramic	AA
C402	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C403	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C404	VCEA0A1CW107M	J	100	16V	EL.	AC
C405	VCEA0A1HW335M	J	3.3	50V	EL.	AB
C406	VCEA0A1HW225M	J	2.2	50V	EL.	AB
C408	VCEA0A1HW106M	J	10	50V	EL.	AB
C409	VCEA0A1HW335M	J	3.3	50V	EL.	AB
C410	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C411	VCEA0A1CW337M	J	330	16V	EL.	AC
C412	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C413	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C422	VCEA0A1CW476M	J	47	16V	EL.	AB
C423	VCEA0A1CW476M	J	47	16V	EL.	AB
C451	RC-QZA104TAYK	J	0.1	50V	Mylar	AB
C452	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C453	VCEA0A1CW226M	J	22	16V	EL.	AB
C471	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C472	VCE9GA1CW106M	J	10	16V	EL.(N.P)	AB
C473	VCEA0A1CW106M	J	10	16V	EL.	AB
C474	VCEA0A1CW106M	J	10	16V	EL.	AB
C476	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C477	VCE9GA1CW106M	J	10	16V	EL.(N.P)	AB
C478	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C501	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C502	VCEA0A1VW337M	J	330	35V	EL.	AD
C509	VCCSPA1HL101J	J	100p	50V	Ceramic	AA
C510	VCFYSA1JA564J	J	0.56	63V	Mylar	AE
C511	VCKYPA2HB391K	J	390p	500V	Ceramic	AA
C512	RC-QZA683TAYJ	J	0.068	50V	Mylar	AB
C513	RC-QZA103TAYK	J	0.01	50V	Mylar	AA
C514	VCEA0A1VW107M	J	100	35V	EL.	AC
C515	VCEACA1HC225J	J	2.2	50V	EL.	AC
C516	VCEACA1HC105J	J	1	50V	EL.	AB
C517	VCEA0A1VW108M	J	1000	35V	EL.	AD
C518	VCFYSA1JA473J	J	0.047	63V	Mylar	AC
C519	VCEA0A1HW105M	J	1	50V	EL.	AB
C551	VCSATA1CE225K	J	2.2	16V	Tantalum	AB
C552	VCEA0A1HW225M	J	2.2	50V	EL.	AB
C553	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C605	VCKYPA1HB102K	J	1000p	50V	Ceramic	AA
C606	VCKYPA2HB561K	J	560p	500V	Ceramic	AA
C607	VCKYPA1HB472K	J	4700p	50V	Ceramic	AA
C608	RC-KZ0033CEZZ	J	150p	2kV	Ceramic	
			(32K-S400, CK32S40)			
C608	VCKYPH3DB271K	J	270p	2kV	Ceramic	AC
			(36K-S400, CK36S40)			
▲⚠ C609	VCFPPD3CA912H	J	9100p	1.6kV	M-Poly	
			(32K-S400, CK32S40)			
▲⚠ C609	VCFPPD3CA822H	J	8200p	1.6kV	M-Poly	AE
			(36K-S400, CK36S40)			
▲⚠ C610	VCFPPD3CA912H	J	9100p	1600V	M-Poly	AE
C615	VCKYPA2HB272K	J	2700p	500V	Ceramic	AA
C622	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C623	VCEA0A2CW336M	J	33	160V	EL.	AE
C631	VCEA0A1HW335M	J	3.3	50V	EL.	AB
C632	RC-QZA103TAYK	J	0.01	50V	Mylar	AA
C633	VCEA0A1HW105M	J	1	50V	EL.	AB
C652	VCEA0A1VW476M	M	47	35V	EL.	
C653	VCEA0A1HW106M	J	10	50V	EL.	AB
C671	VCEA0A1EW336M	J	33	25V	EL.	AB
C672	VCEACA1HC335J	J	3.3	50V	EL.	AC
C673	VCEA0A1VW337M	J	330	35V	EL.	AD
C674	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C675	VCEA0A1VW106M	J	10	35V	EL.	AB
C676	VCE9GA1EW336M	J	33	25V	EL.(N.P)	AB
C677	RC-FZ0184CEZZ	J	4.7	100V	Mylar	AG
⚠ C678	VCQPPC2GB473J	J	0.047	400V	M-Poly	AC
			(32K-S400, CK32S40)			
⚠ C678	VCQPPC2JB473J	J	0.047	630V	M-Poly	AC
			(36K-S400, CK36S40)			
C680	VCFPPD2DB684J	J	0.68	200V	M-Poly	AE
C682	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
⚠ C701	RC-FZ012SGEZZ	J	0.22	AC125V	Plastic	AE
	or					
	RC-FZ017SCEZZ					
	or					
	RC-FZ032CUMZZ					
	or					
	RC-FZ004SGEZZ					
C702	RC-KZ0029CEZZ	J	0.01	500V	Ceramic	AC
C703	RC-KZ0029CEZZ	J	0.01	500V	Ceramic	AC
⚠ C705	RC-EZ0720CEZZ	J	680	200V	EL.	
			(32K-S400, CK32S40)			
⚠ C705	RC-EZ0722CEZZ	M	820	200V	EL.	AL
			(36K-S400, CK36S40)			
	or					
	RC-EZ0684CEZZ					
	or					
	RC-EZ0394CEZZ					AP
⚠ C706	RC-KZ0092GEZZ	J	0.0033	AC250V	Ceramic	AC
	or					
	RC-KX0311CEZZ					
C707	VCFPPC3CA222H	J	2200p	1.6kV	M-Poly	AD
C708	VCCSPA1HL471J	J	470p	50V	Ceramic	AA
C709	VCEA0A1VW107M	J	100	35V	EL.	AC
C710	RC-QZA182TAYJ	J	0.0018	50V	Mylar	AB
C717	VCKYPA2HB472K	J	4700p	500V	Ceramic	AB
C722	RC-QZA104TAYK	J	0.1	50V	Mylar	AB
⚠ C723	RC-EZ0696CEZZ	J	220	160V	EL.	
	or					
	RC-EZ0492CEZZ					
	or					
	RC-EZ0660CEZZ					
⚠ C725	RC-EZ0697CEZZ	J	330	160V	EL.	
	or		(32K-S400, CK32S40)			
	RC-EZ0493CEZZ					
	or					
	RC-EZ0661CEZZ					

PWB-A: DUNTK9513WEK0(32K-S400, CK32S40)
PWB-A: DUNTK9513WEK1(36K-S400, CK36S40)
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
⚠ C725	RC-EZ0698CEZZ or RC-EZ0494CEZZ or RC-EZ0662CEZZ	J	330 (36K-S400, CK36S40)	160V	EL.	
C726	RC-KZ0338CEZZ	J	560p	2kV	Ceramic	AD
C727	RC-KZ0338CEZZ	J	560p	2kV	Ceramic	AD
C729	VCEA0A1CW106M	J	10	16V	EL.	AB
C730	VCEA0A1EW108M	J	1000	25V	EL.	AD
C731	VCEA0A1CW108M	J	1000	16V	EL.	AD
C732	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C741	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C742	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C751	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C753	VCEA0A1CW107M	J	100	16V	EL.	AC
C755	VCEA0A1CW476M	J	47	16V	EL.	AB
C772	VCEA0A1VW477M	J	470	35V	EL.	AB
C773	VCCSPA1HL101J	J	100p	50V	Ceramic	AA
C801	RC-QZA223TAYK	J	0.022	50V	Mylar	AB
C802	VCEA0A1HW474M	J	0.47	50V	EL.	AB
C803	VCCCCY1HH110J	J	11p	50V	Ceramic	AA
C804	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C805	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C806	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C807	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C821	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C822	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C823	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C824	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C825	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C901	VCEA0A1HW335M	J	3.3	50V	EL.	AB
C903	VCEA0A1HW335M	J	3.3	50V	EL.	AB
C922	VCEA0A1HW335M	J	3.3	50V	EL.	AB
C923	VCEA0A1HW335M	J	3.3	50V	EL.	AB
C925	VCEA0A1CW476M	J	47	16V	EL.	AB
C926	VCEA0A1CW476M	J	47	16V	EL.	AB
C927	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C928	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C929	VCEA0A1CW106M	J	10	16V	EL.	AB
C930	VCEA0A1CW106M	J	10	16V	EL.	AB
C951	VCEA0A1CW106M	J	10	16V	EL.	AB
C952	VCEA0A1CW106M	J	10	16V	EL.	AB
C954	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C955	VCEA0A1CW106M	J	10	16V	EL.	AB
C956	VCEA0A1CW337M	J	330	16V	EL.	AC
C1601	VCEA0A1CW106M	J	10	16V	EL.	AB
C1602	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C1603	VCKYCY1HB221K	J	220p	50V	Ceramic	AA
C2001	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2002	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2040	VCEA0A1AW107M	J	100	10V	EL.	AB
C2041	VCEA0A1HW105M	J	1	50V	EL.	AB
C2060	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C2061	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2062	VCEA0A1AW107M	J	100	10V	EL.	AB
C2063	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2201	VCKYCY1HB472K	J	4700p	50V	Ceramic	AA
C2202	VCCCCY1HH390J	J	39p	50V	Ceramic	AA
C3001	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB
C3002	VCKYCY1HB562K	J	5600p	50V	Ceramic	AA
C3003	RC-QZA123TAYK	J	0.012	50V	Mylar	AB
C3004	VCEA0A1HW105M	J	1	50V	EL.	AB
C3005	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C3006	VCEA0A1HW106M	J	10	50V	EL.	AB
C3007	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C3008	VCKYCY1HF103Z	J	0 01	50V	Ceramic	AA
C3009	VCEA0A1CW227M	J	220	16V	EL.	AC
C3010	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB
C3011	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C3012	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB
C3013	VCKYCY1HB272K	J	2700p	50V	Ceramic	AA
C3014	RC-QZA473TAYK	J	0.047	50V	Mylar	AB
C3015	VCSATA1CE335K	J	3 3	16V	Tantalum	AC
C3016	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB
C3017	VCSATA1CE106K	J	10	16V	Tantalum	AD
C3018	VCEA0A1HW105M	J	1	50V	EL.	AB
C3021	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C3022	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C3023	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C3024	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C3025	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3026	VCKYCY1HB103K	J	0 01	50V	Ceramic	AA
C3027	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3028	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3029	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3030	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3201	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB
C3202	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB
C3203	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C3204	VCEA0A1CW106M	J	10	16V	EL.	AB
C3205	VCEA0A1CW106M	J	10	16V	EL.	AB
C3206	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C3207	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB
C3208	VCE9GA1HW475M	J	4.7	50V	EL.(N.P)	AB

RESISTORS

[M-Ox.··· M-Ox., M-Film.··· M-Film]

RJ1	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ2	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ3	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ4	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ5	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ6	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ7	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ8	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ9	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ10	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ11	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ12	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ13	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ15	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA

PWB-A: DUNTK9513WEK0(32K-S400, CK32S40)
PWB-A: DUNTK9513WEK1(36K-S400, CK36S40)
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
RJ16	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ17	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ19	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ20	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ21	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ22	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ24	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ25	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ26	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ27	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ29	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ30	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
⚠ R51	VRS-RG3AB101J	J	100	1W	M-Ox.	AA
R53	VRD-RA2BE1R0J	J	1	1/8W	Carbon	AA
R54	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R55	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R56	VRS-CY1JF823J	J	82k	1/16W	M-Ox.	AA
R57	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R201	VRS-CY1JF151J	J	150	1/16W	M-Ox.	AA
R202	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R203	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R204	VRS-CY1JF270J	J	27	1/16W	M-Ox.	AA
R205	VRS-CY1JF331J	J	330	1/16W	M-Ox.	AA
R206	VRD-RA2BE121J	J	120	1/8W	Carbon	AA
R207	VRD-RA2BE4R7J	J	4.7	1/8W	Carbon	AA
R208	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
R301	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	AA
R302	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R303	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R304	VRS-CY1JF333J	J	33k	1/16W	M-Ox.	AA
R305	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R306	VRS-CY1JF152J	J	1.5k	1/16W	M-Ox.	AA
R360	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
R361	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA
R362	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA
R363	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R364	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R365	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA
R370	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA
R371	VRD-RA2EE3R3J	J	3.3	1/4W	Carbon	AA
R372	VRD-RA2EE3R3J	J	3.3	1/4W	Carbon	AA
R401	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R402	VRS-CY1JF331J	J	330	1/16W	M-Ox.	AA
R403	VRS-CY1JF391J	J	390	1/16W	M-Ox.	AA
R404	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R405	VRS-CY1JF470J	J	47	1/16W	M-Ox.	AA
R406	VRS-CY1JF680J	J	68	1/16W	M-Ox.	AA
R407	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R408	VRS-CY1JF471J	J	470	1/16W	M-Ox.	AA
R409	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA
R410	VRD-RA2BE823J	J	82k	1/8W	Carbon	AA
R411	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	AA
R412	VRD-RA2EE561J	J	560	1/4W	Carbon	AA
R413	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R414	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R415	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R419	VRS-CY1JF225J	J	2.2M	1/16W	M-Ox.	AA
R420	VRS-CY1JF332J	J	3.3k	1/16W	M-Ox.	AA
R421	VRS-CY1JF152J	J	1.5k	1/16W	M-Ox.	AA
R424	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R426	VRS-CY1JF182J	J	1.8k	1/16W	M-Ox.	AA
R427	VRS-CY1JF182J	J	1.8k	1/16W	M-Ox.	AA
R428	VRS-CY1JF182J	J	1.8k	1/16W	M-Ox.	AA
R431	VRS-CY1JF330J	J	33	1/16W	M-Ox.	AA
R432	VRS-CY1JF330J	J	33	1/16W	M-Ox.	AA
R433	VRS-CY1JF330J	J	33	1/16W	M-Ox.	AA
R434	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
⚠ R451	VRS-RG3AB103J	J	10k	1W	M-Ox.	AB
R452	VRD-RM2HD823J	J	82k	1/2W	Carbon	AA
R453	VRD-RA2EE824J	J	820k	1/4W	Carbon	AA
			(32K-S400, CK32S40)			
R453	VRD-RA2EE394J	J	390k	1/4W	Carbon	AA
			(36K-S400, CK36S40)			
R454	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R456	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R457	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R458	VRS-CY1JF152J	J	1.5k	1/16W	M-Ox.	AA
R471	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R472	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R473	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R474	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R481	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R482	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R483	VRS-CY1JF223J	J	22k	1/16W	M-Ox.	AA
⚠ R501	VRN-RL3LB2R2J	M	2.2	3W	M-Film	
R506	VRS-CY1JF223J	J	22k	1/16W	M-Ox.	AA
R510	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R511	VRD-RA2BE393J	J	39k	1/8W	Carbon	AA
			(32K-S400, CK32S40)			
R511	VRD-RA2BE473J	J	47k	1/8W	Carbon	AA
			(36K-S400, CK36S40)			
R512	VRD-RA2BE683J	J	68k	1/8W	Carbon	AA
R513	VRS-CY1JF273J	J	27k	1/16W	M-Ox.	AA
			(32K-S400, CK32S40)			
R513	VRS-CY1JF563J	J	56k	1/16W	M-Ox.	AA
			(36K-S400, CK36S40)			
R514	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R519	VRS-CY1JF123J	J	12k	1/16W	M-Ox.	AA
R520	VRS-CY1JF184J	J	180k	1/16W	M-Ox.	AA
R521	VRD-RM2HD152J	J	1.5k	1/2W	Carbon	AA
R522	VRS-RG3AB102J	M	1k	1W	M-Ox.	
R523	VRN-RL3AB1R2J	M	1.2	1W	M-Film	
			(32K-S400, CK32S40)			
R523	VRN-RL3AB1R0J	M	1	1W	M-Film	AA
			(36K-S400, CK36S40)			
R524	VRS-RG3AB391J	M	390	1W	M-Ox.	AA
R525	VRS-CY1JF563J	J	56k	1/16W	M-Ox.	AA
R551	VRS-CY1JF472J	J	4.7k	1/16W	M-Ox.	AA
R552	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R553	VRS-CY1JF823J	J	82k	1/16W	M-Ox.	AA
R554	VRS-CY1JF183J	J	18k	1/16W	M-Ox.	AA

PWB-A: DUNTK9513WEK0(32K-S400, CK32S40)
PWB-A: DUNTK9513WEK1(36K-S400, CK36S40)
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
⚠ R604	VRS-RG3LB222J	M	2.2k 3W M-Ox. (32K-S400, CK32S40)	
⚠ R604	VRS-RG3LB332J	M	3.3k 3W M-Ox. (36K-S400, CK36S40)	
R605	VRD-RM2HD331J	J	330 1/2W Carbon	AA
R606	VRD-RM2HD271J	J	270 1/2W Carbon	AA
⚠ R607	VRS-RG3LB222J	M	2.2k 3W M-Ox. (32K-S400, CK32S40)	
⚠ R607	VRS-RG3LB332J	M	3.3k 3W M-Ox. (36K-S400, CK36S40)	
⚠ R608	VRS-RG3LB391J	M	390 3W M-Ox.	
⚠ R609	VRS-RG3AB562J	M	5.6k 1W M-Ox.	
R610	VRD-RM2HD220J	J	22 1/2W Carbon	AA
⚠ R611	VRW-KQ41C3R3K	J	3.3 15W Cement	AG
⚠ R621	VRN-VV3LB1R2J	J	1.2 3W M-Film (32K-S400, CK32S40)	AB
	or			
	VRN-VV3LB1R5J	J	1.5 3W M-Film	
⚠ R621	VRN-VV3LB2R7J	J	2.7 3W M-Film (36K-S400, CK36S40)	AB
	or			
	VRN-VV3LB2R2J	J	2.2 3W M-Film	
⚠ R622	VRN-RL2HCR68J	M	0.68 1/2W M-Film (32K-S400, CK32S40)	
⚠ R622	VRN-RL2HCR56J	M	0.56 1/2W M-Film (36K-S400, CK36S40)	
⚠ R623	VRN-RL3AB1R0J	M	1 1W M-Film	AA
⚠ R624	VRS-RG3DB332J	M	3.3k 2W M-Ox.	
R625	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R631	VRS-CY1JF391J	J	390 1/16W M-Ox.	AA
R632	VRS-CY1JF152J	J	1.5k 1/16W M-Ox.	AA
R633	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
R634	VRD-RM2HD101J	J	100 1/2W Carbon	AA
▲⚠ R651	VRN-RL2HC1R0J	J	1 1/2W M-Film	
▲⚠ R652	VRD-RA2EE103J	J	10k 1/4W Carbon (32K-S400, CK32S40)	AA
▲⚠ R652	VRD-RA2EE123J	J	12k 1/4W Carbon (36K-S400, CK36S40)	AA
▲⚠ R653	VRD-RA2EE562J	J	5.6k 1/4W Carbon (32K-S400, CK32S40)	AA
▲⚠ R653	VRD-RA2EE103J	J	10k 1/4W Carbon (36K-S400, CK36S40)	AA
▲⚠ R654	VRD-RA2EE393J	J	39k 1/4W Carbon (32K-S400, CK32S40)	AA
▲⚠ R654	VRD-RA2EE683J	J	68k 1/4W Carbon (36K-S400, CK36S40)	AA
▲⚠ R655	VRS-CY1JF104J	J	100k 1/16W M-Ox.	AA
⚠ R658	VRS-RG3DB123J	J	12k 2W M-Ox. (32K-S400, CK32S40)	AA
⚠ R658	VRS-RG3DB153J	J	15k 2W M-Ox. (36K-S400, CK36S40)	AA
R671	VRD-RA2BE222J	J	2.2k 1/8W Carbon	AA
R672	VRD-RA2BE822J	J	8.2k 1/8W Carbon	AA
R673	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
R674	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
R675	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R677	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R679	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA
R680	VRS-CY1JF822J	J	8.2k 1/16W M-Ox.	AA
R681	VRS-CY1JF123J	J	12k 1/16W M-Ox.	AA
R682	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R683	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R684	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
R685	VRD-RA2BE562J	J	5.6k 1/8W Carbon	AA
R686	VRD-RA2EE222J	J	2.2k 1/4W Carbon	AA
R687	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
⚠ R688	VRN-RL3DB3R3J	M	3.3 2W M-Film	
R689	VRS-CY1JF274J	J	270k 1/16W M-Ox.	AA
⚠ R690	VRS-RG3LB561J	M	560 3W M-Ox.	
⚠ R691	VRG-RL2HB101J	J	100 1/2W Carbon	AB
⚠ R701	RR-HZ0048CEZZ	M	3.9M 1/2W Carbon	
⚠ R702	VRW-KQ4AC1R2K	M	1.2 10W Cement	
⚠ R703	VRS-RG3LB101J	J	100 3W M-Ox.	AC
R704	VRD-RM2HD154J	J	150k 1/2W Carbon	AA
⚠ R705	VRN-RL3DBR22J	J	0.22 2W M-Film	AA
⚠ R706	VRN-RL3DBR27J	J	0.27 2W M-Film (32K-S400, CK32S40)	AA
⚠ R706	VRN-RL3DBR22J	J	0.22 2W M-Film (36K-S400, CK36S40)	AA
R707	VRS-RG2HC681J	J	680 1/2W M-Ox.	AA
R709	VRN-GA2EB1R0J	J	1 1/4W M-Film	AA
R710	VRD-RM2HD330J	J	33 1/2W Carbon	AA
R711	VRD-RA2BE272J	J	2.7k 1/8W Carbon	AA
R712	VRD-RA2EE182J	J	1.8k 1/4W Carbon	AA
⚠ R715	VRS-RG3DB153J	J	15k 2W M-Ox.	AA
⚠ R723	VRN-RL3DBR39J	M	0.39 2W M-Film	
R724	VRS-RG2HC332J	J	3.3k 1/2W M-Ox.	AA
⚠ R725	VRS-RG3AB182J	J	1.8k 1W M-Ox.	AA
R726	VRD-RM2HD102J	J	1k 1/2W Carbon (36K-S400, CK36S40)	AA
⚠ R727	VRN-RL3LB2R7J	M	2.7 3W M-Film	
R734	VRD-RM2HD124J	J	120k 1/2W Carbon	AA
R751	VRS-CY1JF473J	J	47k 1/16W M-Ox.	AA
⚠ R753	VRS-RG3AB391J	M	390 1W M-Ox.	
⚠ R755	VRS-RG3LB220J	M	22 3W M-Ox.	
R801	VRD-RA2BE332J	J	3.3k 1/8W Carbon	AA
R802	VRS-CY1JF332J	J	3.3k 1/16W M-Ox.	AA
R803	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA
R804	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA
R805	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA
R806	VRS-CY1JF333J	J	33k 1/16W M-Ox.	AA
R821	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA
R822	VRS-CY1JF183J	J	18k 1/16W M-Ox.	AA
R823	VRS-CY1JF471J	J	470 1/16W M-Ox.	AA
R824	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R825	VRS-CY1JF152J	J	1.5k 1/16W M-Ox.	AA
R826	VRS-CY1JF562J	J	5.6k 1/16W M-Ox.	AA
R827	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R828	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R829	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R901	VRS-CY1JF104J	J	100k 1/16W M-Ox.	AA

PWB-A: DUNTK9513WEK0(32K-S400, CK32S40)
PWB-A: DUNTK9513WEK1(36K-S400, CK36S40)
MAIN UNIT (Continued)

Ref. No.	Part No.	★			Description	Code
R902	VRS-CY1JF104J	J	100k	1/16W	M-Ox.	AA
R903	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R904	VRS-CY1JF683J	J	68k	1/16W	M-Ox.	AA
R905	VRS-CY1JF223J	J	22k	1/16W	M-Ox.	AA
R906	VRS-CY1JF392J	J	3.9k	1/16W	M-Ox.	AA
R907	VRS-CY1JF182J	J	1.8k	1/16W	M-Ox.	AA
R908	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R910	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R911	VRS-CY1JF683J	J	68k	1/16W	M-Ox.	AA
R912	VRS-CY1JF223J	J	22k	1/16W	M-Ox.	AA
R913	VRS-CY1JF392J	J	3.9k	1/16W	M-Ox.	AA
R914	VRS-CY1JF182J	J	1.8k	1/16W	M-Ox.	AA
R915	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R922	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R923	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R924	VRD-RA2EE750J	J	75	1/4W	Carbon	AA
R925	VRS-CY1JF104J	J	100k	1/16W	M-Ox.	AA
R926	VRS-CY1JF104J	J	100k	1/16W	M-Ox.	AA
R927	VRD-RA2EE750J	J	75	1/4W	Carbon	AA
R928	VRD-RA2EE750J	J	75	1/4W	Carbon	AA
R929	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R930	VRS-CY1JF563J	J	56k	1/16W	M-Ox.	AA
R931	VRS-CY1JF333J	J	33k	1/16W	M-Ox.	AA
R932	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R933	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R934	VRS-CY1JF473J	J	47k	1/16W	M-Ox.	AA
R935	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R936	VRS-CY1JF473J	J	47k	1/16W	M-Ox.	AA
R937	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R938	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R939	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R940	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R941	VRS-CY1JF273J	J	27k	1/16W	M-Ox.	AA
R942	VRS-CY1JF273J	J	27k	1/16W	M-Ox.	AA
R943	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R951	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R952	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R955	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R958	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R959	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R961	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R962	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R963	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
R1601	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R1602	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R1603	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R1604	VRS-CY1JF152J	J	1.5k	1/16W	M-Ox.	AA
R1605	VRS-CY1JF391J	J	390	1/16W	M-Ox.	AA
R1606	VRS-CY1JF471J	J	470	1/16W	M-Ox.	AA
R1607	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA
R1608	VRS-CY1JF681J	J	680	1/16W	M-Ox.	AA
R1609	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R2001	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA
R2003	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R2004	VRD-RA2BE473J	J	47k	1/8W	Carbon	AA
R2006	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R2008	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R2009	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R2010	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R2011	VRD-RA2BE821J	J	820	1/8W	Carbon	AA
R2012	VRS-CY1JF471J	J	470	1/16W	M-Ox.	AA
R2020	VRD-RM2HD223J	J	22k	1/2W	Carbon	AA
R2022	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R2024	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	AA
R2025	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	AA
R2026	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	AA
R2027	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R2028	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R2029	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R2030	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R2031	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R2032	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R2040	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R2041	VRS-CY1JF333J	J	33k	1/16W	M-Ox.	AA
R2042	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2043	VRS-CY1JF333J	J	33k	1/16W	M-Ox.	AA
R2044	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R2045	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2046	VRD-RA2BE101J	J	100	1/8W	Carbon	AB
R2047	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2048	VRS-CY1JF562J	J	5.6k	1/16W	M-Ox.	AA
R2060	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2061	VRS-CY1JF562J	J	5.6k	1/16W	M-Ox.	AA
R2062	VRD-RA2BE183J	J	18k	1/8W	Carbon	AA
R2063	VRS-CY1JF222J	J	2.2k	1/16W	M-Ox.	AA
R2064	VRS-CY1JF332J	J	3.3k	1/16W	M-Ox.	AA
R2069	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R2071	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R2072	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R2073	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R2101	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2102	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2201	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	AA
R2202	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R2203	VRD-RA2BE184J	J	180k	1/8W	Carbon	AA
R2211	VRS-CY1JF222J	J	2.2k	1/16W	M-Ox.	AA
R2212	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R2213	VRS-CY1JF333J	J	33k	1/16W	M-Ox.	AA
R2401	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2402	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2403	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2404	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2507	VRS-CY1JF823J	J	82k	1/16W	M-Ox.	AA
R3001	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R3002	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R3003	VRS-CY1JF105J	J	1M	1/16W	M-Ox.	AA
R3004	VRS-CY1JF104J	J	100k	1/16W	M-Ox.	AA
R3005	VRS-CY1JF623J	J	62k	1/16W	M-Ox.	AA
R3007	VRS-CY1JF332J	J	3.3k	1/16W	M-Ox.	AA
R3008	VRS-CY1JF302J	J	3k	1/16W	M-Ox.	AA
R3010	VRS-CY1JF392J	J	3.9k	1/16W	M-Ox.	AA

PWB-A: DUNTK9513WEK0(32K-S400, CK32S40)
PWB-A: DUNTK9513WEK1(36K-S400, CK36S40)
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
R3011	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R3012	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R3017	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R3018	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R3201	VRS-CY1JF225J	J	2.2M	1/16W	M-Ox.	AA
R3202	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R3203	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA

SWITCH

S502	QSW-B0015CEZZ	J	V-Center	AC

MISCELLANEOUS PARTS

⚠ RY701	RRLYU0036CEZZ	J	Relay	AM
	or			
	RRLYU0028CEZZ			AK
⚠ F701	QFS-B5023CEZZ	J	Fuse 5A (AC125V)	AC
FB601	RBLN-0047CEZZ	J	Ferrite Bead	AB
FB671	RBLN-0047CEZZ	J	Ferrite Bead	AB
FB701	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB702	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB704	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB706	RBLN-0037CEZZ	J	Ferrite Bead	AB
FH701	QFSHD1013CEZZ	J	Fuse Holder	AC
FH702	QFSHD1014CEZZ	J	Fuse Holder	AC
J921	QSOCD0430CEZZ	J	Socket, S-Video	AE
P351	QPLGN0461CEZZ	J	Plug, 4-pin(S)	AB
P401	QPLGN0561CEZZ	J	Plug, 5-pin(GBN)	AB
P601	QPLGN0161FJZZ	M	Plug, 6-pin(K)	
P621	QPLGN0461CEZZ	J	Plug, 4-pin(YBN)	AB
P651	QPLGN0361CEZZ	J	Plug, 3-pin(TP651~3)	AB
P701	QPLGN0404CEZZ	J	Plug, 4-pin(EJ)	AB
P703	QPLGN0269GEZZ	J	Plug, 2-pin(P)	AB
P901	QPLGN0661CEZZ	J	Plug, 6-pin(EJ)	AD
P2401	QPLGN0561CEZZ	J	Plug, 5-pin	AB
P2403	QPLGN0461CEZZ	J	Plug, 4-pin(YR)	AB
RDA361	PRDAR5006MEFW	M	Heat Sink, IC361	
RDA501	PRDAR0234PEFW	R	Heat Sink, IC501	AH
RDA601	PRDAR0150PEFW	R	Heat Sink, Q601	AL
RDA671	PRDAR1007MEFW	M	Heat Sink, Q673	
RDA701	PRDAR1006MEFW	M	Heat Sink, IC701	
RDA750	PRDAR5072CEFW	J	Heat Sink, IC751	AC
TAN921	QTANJ0523CEZZ	J	A/V Terminal	AG

PWB-B: DUNTK9303WEK3(32K-S400, CK32S40)
PWB-B: DUNTK9303WEK4(36K-S400, CK36S40)
CRT UNIT

TRANSISTORS

Q850	VS2SC4544LB2E	J	2SC4544	AD
Q851	VS2SC4544LB2E	J	2SC4544	AD
Q852	VS2SC4544LB2E	J	2SC4544	AD
Q853	VS2SC3198-Y-1	J	2SC3198(Y)	AA
Q854	VS2SC3198-Y-1	J	2SC3198(Y)	AA
Q855	VS2SC3198-Y-1	J	2SC3198(Y)	AA
Q894	VS2SA1266-Y-1	J	2SA1266(Y)	AA

DIODES

D850	VHD1SS119//-1	J	Diode	AB
D851	VHD1SS119//-1	J	Diode	AB
D852	VHD1SS119//-1	J	Diode	AB
D894	VHD1SS119//-1	J	Diode	AB
D895	VHD1SS119//-1	J	Diode	AB
D896	RH-EX0616GEZZ	J	Zener Diode, 5.6V	AA
	or			
	RH-EX0298CEZZ			
D897	VHD1SS119//-1	J	Diode	AB
D898	VHD1SS119//-1	J	Diode	AB

COILS

L852	VP-MK221K0000	J	Peaking 220µH	AB
L853	VP-MK221K0000	J	Peaking 220µH	AB
L854	VP-MK221K0000	J	Peaking 220µH	AB

CAPACITORS

[EL.··· Electrolytic]

C850	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C851	VCEA0A1CW476M	J	47	16V	EL.	AB
C876	VCCSPA1HL561J	J	560p	50V	Ceramic	AA
C877	VCCSPA1HL471J	J	470p	50V	Ceramic	AA
C878	VCCSPA1HL561J	J	560p	50V	Ceramic	AA
C880	RC-KZ0153CEZZ	J	0.001	3kV	Ceramic	AB
C892	VCEA0A1CW106M	J	10	16V	EL.	AB
C893	VCEA0A1CW106M	J	10	16V	EL.	AB
C895	VCEA0A1CW226M	J	22	16V	EL.	AB

RESISTORS

[M-Ox.··· Metal Oxide]

R849	VRD-RA2BE151J	J	150	1/8W	Carbon	AA
R850	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R851	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R852	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R854	VRD-RA2BE151J	J	150	1/8W	Carbon	AA
R855	VRD-RA2BE151J	J	150	1/8W	Carbon	AA
R856	VRD-RA2BE121J	J	120	1/8W	Carbon	AA
R857	VRD-RA2BE121J	J	120	1/8W	Carbon	AA
R858	VRD-RA2BE121J	J	120	1/8W	Carbon	AA
⚠ R859	VRS-VV3DB273J	J	27k	2W	M-Ox.	AA
⚠ R860	VRS-VV3DB273J	J	27k	2W	M-Ox.	AA
⚠ R861	VRS-VV3DB273J	J	27k	2W	M-Ox.	AA
⚠ R862	VRS-VV3DB273J	J	27k	2W	M-Ox.	AA
⚠ R863	VRS-VV3DB273J	J	27k	2W	M-Ox.	AA

PWB-B: DUNTK9303WEK3(32K-S400, CK32S40)
PWB-B: DUNTK9303WEK4(36K-S400, CK36S40)
CRT UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
⚠ R864	VRS-VV3DB273J	J	27k	2W	M-Ox.	AA
R868	VRD-RM2HD224J	J	220k	1/2W	Carbon	AA
R870	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R871	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R872	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R873	VRD-RA2BE220J	J	22	1/8W	Carbon	AA
R874	VRD-RA2BE220J	J	22	1/8W	Carbon	AA
R875	VRD-RA2BE220J	J	22	1/8W	Carbon	AA
R876	VRD-RA2BE121J	J	120	1/8W	Carbon	AA
R877	VRD-RA2BE121J	J	120	1/8W	Carbon	AA
R878	VRD-RA2BE121J	J	120	1/8W	Carbon	AA
R880	VRC-MA2HG332K	J	3.3k	1/2W	Solid	AA
R881	VRC-MA2HG332K	J	3.3k	1/2W	Solid	AA
R882	VRC-MA2HG332K	J	3.3k	1/2W	Solid	AA
R883	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R884	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R885	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R886	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R887	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R888	VRD-RA2BE471J	J	470	1/8W	Carbon	AA
R891	VRD-RA2BE561J	J	560	1/8W	Carbon	AA
R892	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
R894	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	AA
R895	VRD-RA2EE561J	J	560	1/4W	Carbon	AA

MISCELLANEOUS PARTS

P860	QPLGN0461CEZZ	J	Plug, 4-pin(YBN)	AB
P880	QPLGN0561CEZZ	J	Plug, 5-pin(GBN)	AB
SC801	QSOCV0937CEZZ	J	Socket (32K-S400, CK32S40)	AF
	or			
	QSOCV0938CEZZ			
SC801	QSOCV1011CEZZ	J	Socket (36K-S400, CK36S40)	

PWB-F: DUNTK9514WEK0
CONTROL UNIT

CAPACITOR

[EL.··· Electrolytic]

C4001	VCEA0A1HW475M	J	4.7	50V	EL.	AB

RESISTORS

R4001	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R4003	VRD-RA2BE273J	J	27k	1/8W	Carbon	AA
R4004	VRD-RA2BE563J	J	56k	1/8W	Carbon	AA
R4005	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
R4006	VRD-RA2BE563J	J	56k	1/8W	Carbon	AA
R4007	VRD-RA2BE123J	J	12k	1/8W	Carbon	AA
R4008	VRD-RA2EE750J	J	75	1/4W	Carbon	AA
R4009	VRD-RA2BE153J	J	15k	1/8W	Carbon	AA
R4010	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	AA

SWITCHES

S4001	QSW-K0079GEZZ	J	Power	AB
S4002	QSW-K0079GEZZ	J	CH-up	AB
S4003	QSW-K0079GEZZ	J	CH-down	AB
S4004	QSW-K0079GEZZ	J	VOL-up	AB
S4005	QSW-K0079GEZZ	J	VOL-down	AB

MISCELLANEOUS PARTS

J4001	QJAKE0179CEZZ	M	Jack, Audio-In(L)	
J4002	QJAKE0180CEZZ	M	Jack, Audio-In(R)	
J4003	QJAKE0181CEZZ	M	Jack, Video-In	
P4001	QPLGN0461CEZZ	J	Plug, 4-pin(YR)	AB
P4003	QPLGN0661CEZZ	J	Plug, 6-pin(EJ)	AD
RMC4001	RRMCU0230CEZZ	M	R/C Receiver	
	or			
	RRMCU0231CEZZ			
	QCNW-0176MEZZ	M	Connecting Cord	
	QCNW-0179MEZZ	M	Connecting Cord	

PWB-R: DUNTK9511WEK1
P-IN-P UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC1701	VHiMM1117XF1E	M	MM1117XFBE	
IC1781	VHiKA7805Pi-1	R	KIA7805PI	AE
IC1801	VHiM65667FP-1	M	M65667FP	

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q1721	VS2SD601AR/-1	J	2SD601	AC
Q1741	VS2SB709AR/-1	J	2SB709	AC
Q1742	VS2SB709AR/-1	J	2SB709	AC
Q1761	VS2SB709AR/-1	J	2SB709	AC
Q1762	VS2SB709AR/-1	J	2SB709	AC
Q1791	VS2SC1959Y/1E	J	2SC1959	AC
Q1861	VS2SB709AR/-1	J	2SB709	AC
Q1881	VS2SD601AR/-1	J	2SD601	AC
Q1882	VS2SD601AR/-1	J	2SD601	AC
Q1883	VS2SD601AR/-1	J	2SD601	AC

DIODES

Ref. No.	Part No.	★	Description	Code
D1791	RH-EX0604GEZZ	J	Zener Diode, 4.3V	AB
D1801	VHD1SS119//-1	J	Diode	AB
D1821	VHD1SS119//-1	J	Diode	AB

CRYSTAL

Ref. No.	Part No.	★	Description	Code
X1861	RCRSB0241CEZZ	M	Crystal	

COILS

Ref. No.	Part No.	★	Description	Code
L1721	VP-XF680K0000	J	Peaking 68µH	AB
L1801	VP-XF100K0000	J	Peaking 10µH	AB
L1821	VP-XF100K0000	J	Peaking 10µH	AB
L1861	VP-XF100K0000	J	Peaking 10µH	AB
L1862	VP-XF100K0000	J	Peaking 10µH	AB
L1863	VP-XF100K0000	J	Peaking 10µH	AB

CAPACITORS

[EL.··· Electrolytic]

Ref. No.	Part No.	★				Code
C1701	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C1702	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C1703	VCEA0A1HW475M	J	4.7	50V	EL.	AB
C1721	VCEA0A1HW106M	J	10	50V	EL.	AB
C1722	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C1741	RC-QZA473TAYJ	J	0.047	50V	Mylar	AB
C1742	VCEA0A1HW105M	J	1	50V	EL.	AB
C1743	RC-QZA472TAYJ	J	4700p	50V	Mylar	AB
C1761	RC-QZA473TAYJ	J	0.047	50V	Mylar	AB
C1762	VCEA0A1HW105M	J	1	50V	EL.	AB
C1763	RC-QZA682TAYJ	J	6800p	50V	Mylar	AB
C1781	VCEA0A1CW476M	J	47	16V	EL.	AB
C1791	VCEA0A1AW107M	J	100	10V	EL.	AB
C1792	VCEA0A1AW107M	J	100	10V	EL.	AB
C1801	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1802	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1803	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1804	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1805	VCEA0A1HW106M	J	10	50V	EL.	AB
C1806	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1807	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1809	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1810	VCEA0A1CW336M	J	33	16V	EL.	AB
C1811	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1812	VCEA0A1HW106M	J	10	50V	EL.	AB
C1821	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1822	VCEA0A1HW106M	J	10	50V	EL.	AB
C1841	VCEA0A1HW106M	J	10	50V	EL.	AB
C1842	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1843	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C1845	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1846	VCCCCY1HH151J	J	150p	50V	Ceramic	AA
C1847	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1848	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1849	VCEA0A1HW106M	J	10	50V	EL.	AB
C1850	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1851	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1861	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1862	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1863	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C1865	RC-QZA154TAYJ	J	0.15	50V	Mylar	AC
C1866	RC-QZA103TAYJ	J	0.01	50V	Mylar	AB
C1867	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C1868	VCFYSA1HB474J	J	0.47	50V	Mylar	AC
C1869	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1870	VCEA0A1HW106M	J	10	50V	EL.	AB
C1871	VCEA0A1HW106M	J	10	50V	EL.	AB
C1872	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA

RESISTORS

[M-Ox.··· Metal Oxide]

Ref. No.	Part No.	★				Code
RJ1	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ2	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ3	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ4	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ5	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ6	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ7	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ8	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ9	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ10	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
RJ11	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
R1701	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R1702	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R1703	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R1704	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R1705	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R1706	VRS-CY1JF474J	J	470k	1/16W	M-Ox.	AA
R1721	VRS-CY1JF332J	J	3.3k	1/16W	M-Ox.	AA
R1722	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R1723	VRS-CY1JF822J	J	8.2k	1/16W	M-Ox.	AA
R1724	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R1741	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R1742	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R1743	VRS-CY1JF151J	J	150	1/16W	M-Ox.	AA
R1744	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA

PWB-R: DUNTK9511WEK1
P-IN-P UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
R1745	VRS-CY1JF474J	J	470k	1/16W	M-Ox.	AA
R1746	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R1747	VRD-RA2BE822J	J	8.2k	1/8W	Carbon	AA
R1761	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R1762	VRS-CY1JF151J	J	150	1/16W	M-Ox.	AA
R1763	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R1764	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R1765	VRS-CY1JF474J	J	470k	1/16W	M-Ox.	AA
R1766	VRS-CY1JF122J	J	1.2k	1/16W	M-Ox.	AA
R1791	VRD-RA2BE151J	J	150	1/8W	Carbon	AA
R1801	VRS-CY1JF473J	J	47k	1/16W	M-Ox.	AA
R1821	VRS-CY1JF123J	J	12k	1/16W	M-Ox.	AA
R1822	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R1823	VRS-CY1JF183J	J	18k	1/16W	M-Ox.	AA
R1825	VRS-CY1JF183J	J	18k	1/16W	M-Ox.	AA
R1828	VRS-CY1JF153J	J	15k	1/16W	M-Ox.	AA
R1831	VRS-CY1JF332J	J	3.3k	1/16W	M-Ox.	AA
R1832	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R1833	VRS-CY1JF272J	J	2.7k	1/16W	M-Ox.	AA
R1834	VRS-CY1JF222J	J	2.2k	1/16W	M-Ox.	AA
R1841	VRS-CY1JF153J	J	15k	1/16W	M-Ox.	AA
R1842	VRS-CY1JF471J	J	470	1/16W	M-Ox.	AA
R1843	VRS-CY1JF391J	J	390	1/16W	M-Ox.	AA
R1861	VRS-CY1JF153J	J	15k	1/16W	M-Ox.	AA
R1862	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R1863	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R1864	VRS-CY1JF331J	J	330	1/16W	M-Ox.	AA
R1865	VRS-CY1JF474J	J	470k	1/16W	M-Ox.	AA
R1866	VRS-CY1JF104J	J	100k	1/16W	M-Ox.	AA
R1867	VRS-CY1JF202J	J	2k	1/16W	M-Ox.	AA
R1868	VRS-CY1JF510J	M	51	1/16W	M-Ox.	
R1881	VRS-CY1JF473J	J	47k	1/16W	M-Ox.	AA
R1882	VRS-CY1JF223J	J	22k	1/16W	M-Ox.	AA
R1883	VRS-CY1JF123J	J	12k	1/16W	M-Ox.	AA
R1884	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R1885	VRS-CY1JF473J	J	47k	1/16W	M-Ox.	AA
R1886	VRS-CY1JF223J	J	22k	1/16W	M-Ox.	AA
R1887	VRS-CY1JF123J	J	12k	1/16W	M-Ox.	AA
R1889	VRD-RA2BE101J	J	100	1/8W	Carbon	AB

MISCELLANEOUS PARTS

P1701	QPLGZ0810CEZZ	J	Plug, 8-pin	AD
P1702	QPLGZ0610CEZZ	J	Plug, 6-pin	AB
P1703	QPLGZ0810CEZZ	J	Plug, 8-pin	AD
SLD1801	PSLDM0012MEFW	M	Shield	AC

Ref. No.	Part No.	★	Description	Code

MISCELLANEOUS PARTS

⚠ ACC701	QACCD3052CESA	M	AC Cord	AG
	QCNW-0143MEZZ	M	Connecting Cord	AF
	QCNW-0144MEZZ	M	Connecting Cord	AD
	QCNW-0178MEZZ	M	Connecting Cord	AD
SP1	VSP1206PB378E	J	Speaker(L)	
SP2	VSP1206PB378E	J	Speaker(R)	

SUPPLIED ACCESORRIES

TGAN-1006MEZZ	M	Guarantee Card (U.S.A.only)	AA
TiNS-6290MEZZ	M	Operation Manual (32K/36K-S400)	
RRMCG1396CESA	M	Infrared R/C Unit	AW

PACKING PARTS
(NOT REPLACEMANT ITEM)

SPAKC0592MEZZ	–	Packing Case (32K-S400, CK32S40)	—
SPAKC0593MEZZ	–	Packing Case (36K-S400, CK36S40)	—
SPAKX0171MEZZ	–	Buffer Material (32K-S400, CK32S40)	—
SPAKX0172MEZZ	–	Buffer Material (36K-S400, CK36S40)	—
SSAKA0004MEZZ	–	Polyethylene Sack	—

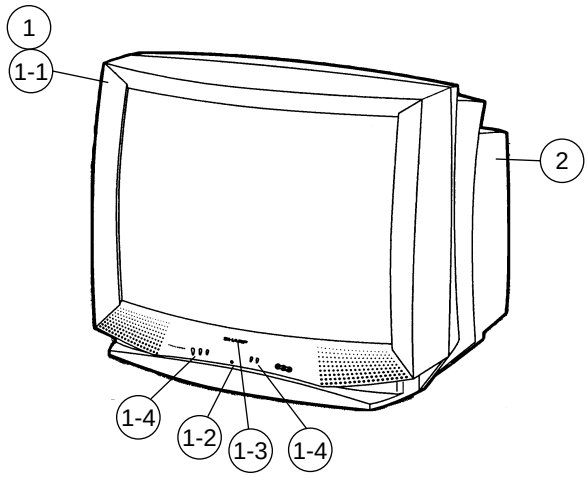
CABINET PARTS

32K-S400, CK32KS40

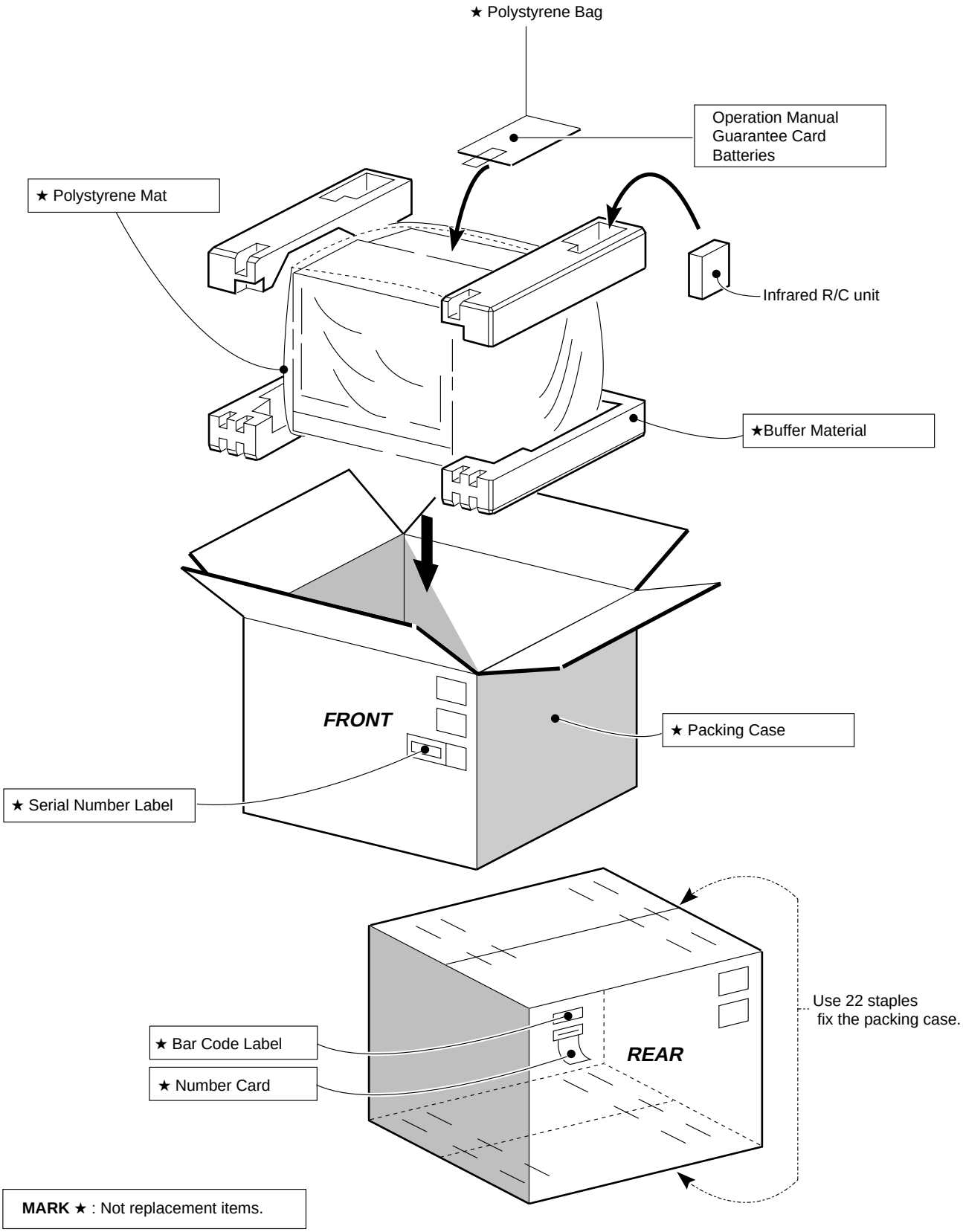
1	CCABA1300MES0	M	Front Cabinet Ass'y	
1-1	*Not Available*	–	Front Cabinet	—
1-2	GCOVA1039MEKA	M	Cover for R/C	
1-3	HBDGB1009MESA	M	Badge,"SHARP"	AD
1-4	JBTN-1105MEKA	M	Button, Power, Vol-up/down, CH-up/down	AE
2	GCABB1134MEKA	M	Rear Cabinet	

36K-S400, CK36S40

1	CCABA1301MES0	M	Front Cabinet Ass'y	
1-1	*Not Available*	–	Front Cabinet	—
1-2	GCOVA1039MEKA	M	Cover for R/C	
1-3	HBDGB1010MESA	M	Badge, "SHARP"	
1-4	JBTN-1105MEKA	M	Button, Power, Vol-up/down, CH-up/down	AE
2	GCABB1137MEKA	M	Rear Cabinet	



PACKING OF THE SET



MARK ★ : Not replacement items.

Memo

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